Operator/Responsible Party,

The OCD has received the form C-141 you provided on **11/29/16** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number **2RP-4017** has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 1/6/16. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

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Page 4 of 106

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		NM C	DIL COI	NSERVA	TION	
District I	State of	New Mexico	ARTESIA	DISTRICT	Form (* 141	
District II EI	nergy Minerals	and Natural Resources	NOV 2	9 2016	Revised August 8, 2011	
BII S. First SL, Artesia, NM 88210 <u>District III</u>	Oil Conser	vation Division	Sub	mit I Copy	to appropriate District Office in	
000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South	St. Francis Dr.	REC		cordance with 19.15.29 NMAC.	
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe	. NM 87505				
Release	Notification	and Corrective	Action			
NARHAZZIEL 951	1 VUIII CALIVI			K Kuriati	-l Damant 🔲 Einal Daman	
Name of Company: BOPCO L P 2/10	7317	Contact: Amy Buth			al Report Final Report	
Address: 522 W. Mermod. Suite 704 Carlsbad. N	.M. 88220	Telephone No. 575-887-7	329			
Facility Name: Golden Federal Battery #1	1	Facility Type: Exploration	n and Pro	duction		
Surface Owner: Federal	Mineral Owner:	Federal		APINO	30-015-26931	
				170170	. 50-015-20751	
Unit Letter Section Township Pange Feat	LUCATION from the North/	N OF KELEASE	FeetA	Vest Line	County	
K 8 21S 29E 1667	South	2300	West	V CSt Lille	Eddy	
I.stitude	32 4913220	Longitude -104 00786	 58°			
Latitute			<u></u>			
Type of Balance Cauda Oil	NATURE	OF RELEASE		Volume	Decovered	
Type of Release Clude On		32 bbls		30 bbls		
Source of Release 3 Phase Vessel		Date and Hour of Occurre	nce	Date and	Hour of Discovery	
Was Immediate Nation Claure?		11/26/2016 time unknow	/n	11/26/201	6 approx. 10 am by operator	
X Yes No	Not Required	Mike Bratcher/Heather Pa	tterson (N	MOCD) ar	nd Jim Amos/Shelly Tucker	
		(BLM)	······			
By Whom? Amy Ruth (within 2 hours of being notific	ed)	Date and Hour 11/28/20	16 11:19	am	······	
Yes ⊠ No		N/A				
If a Wataraauma use Imported Describe Fully					·····	
N/A						
Describe Cause of Problem and Remedial Action Take Unused 3 phase vessel re-fitted and returned to operation	n." on Fluids released	from vessel through pressur	e relief va	lve and lea	king Vic connections Fluids	
escaped mostly into zero permeability containment.	on. Thing foldson	nom vesser undegn presser	o rener va		ang vie connectors. vieras	
Describe Area Affected and Cleanup Action Taken *					<u></u>	
The leak affected a total of about 3,168 square feet of c	aliche pad, zero pe	rmeability containment, and	misted pa	sture east o	of the location. Free standing	
liquids were recovered via vacuum truck and equipmer	nt, tanks, and liner w	were power washed. Vessel	was isolat	ed.		
I hereby certify that the information given above is true	e and complete to the	ne best of my knowledge and	l understa	nd that purs	suant to NMOCD rules and	
regulations all operators are required to report and/or fingulation bealth of the environment. The appendix of a	le certain release no	otifications and perform corn	Percetive act	ions for reli	eases which may endanger	
should their operations have failed to adequately invest	tigate and remediate	e contamination that pose a t	hreat to g	round water	r, surface water, human health	
or the environment. In addition, NMOCD acceptance	of a C-141 report d	oes not relieve the operator of	of respons	ibility for c	ompliance with any other	
federal, state, or local laws and/or regulations.			NORDU	ATION	DIVISION	
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Signature: 1 un Tull			هـ ا	<i>.</i>	4	
Printed Name: AmuC Puth		Approved by Environition	Specialis	A1/4 K) RADENLAR	
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Title: EHS Environmental Supervisor		Approval Date: 1111	HP	Expiration	Date: IV/-/	
E-mail Address: ACRuth@basspet.com	,	Conditions of Approval:			Attached	
	0671					
Date: 11/29/2016 Phone: 432-661- Attach Additional Sheets If Necessary	-05/1				1	
Autor A Materiana Sheets II Meessal y					2KV-4011	

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, November 29, 2016 2:50 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	RE: Release Notification - Golden Federal Battery 11-26-16
Attachments:	Initial C-141 Golden Federal Battery 11-26-16.pdf

Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

From: Ruth, Amy C.
Sent: Monday, November 28, 2016 11:19 AM
To: 'Mike Bratcher'; 'Heather.Patterson@state.nm.us'
Cc: jamos@blm.gov; Tucker, Shelly
Subject: Release Notification - Golden Federal Battery 11-26-16

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p. Latitude: 32.491241 Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.







Amy C. Ruth

BOPCO, L.P. EH&S Department

522 W. Mermod, Suite 704 Carlsbad, NM 88220 O: (575)689-3380 C: (432)661-0571

2

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Monday, November 28, 2016 11:19 AM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	Release Notification - Golden Federal Battery 11-26-16
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From:	Weaver, Crystal, EMNRD
То:	"Ruth, Amy"; Bratcher, Mike, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
Subject:	RE: Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
Date:	Monday, March 5, 2018 3:01:00 PM
Attachments:	image001.png
	1. 4601 - COAs and signed C-141 Initial.pdf
	C-141 Initial for 2RP-521.pdf
	C-141 Initial for 2RP-633.pdf
	C-141 Initial for 2RP-2082.pdf
	1.Initial C-141 for 2RP-2439.pdf
	1.Initial C-141 for 2RP-3612.pdf
	3.Initial C-141- 2RP-4017.pdf

RE: XTO * Golden 8 Federal Battery #1 * 30-015-26931 * 2RP-4601

Amy,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). <u>The OCD tracking number for this event is 2RP-4601, please refer to this tracking number on any and all submissions sent in to the OCD.</u> Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one had a due date of 3/2/18 and that has passed.

Please note: This API number has had quite a few spills in the past that are recorded in our system. Some of these case numbers are pretty old starting with the oldest one 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612 and 2RP-4017. I attached all of the Initial C-141s above for you all to reference. Could you all provide a plan of action on what XTO plans to do regarding this location by no later than 3/23/18.

Thank you,

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210 Office: 575-748-1283 ext. 101 Cell: 575-840-5963 Fax: 575-748-9720

From: Ruth, Amy [mailto:Amy_Ruth@xtoenergy.com]
Sent: Friday, February 2, 2018 9:49 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD
<Crystal.Weaver@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; Jim Amos <jamos@blm.gov>
Cc: Sanders, Toady <Toady_Sanders@xtoenergy.com>; McSpadden, Wes

<Wes_McSpadden@xtoenergy.com>; Foust, Bryan <Bryan_Foust@xtoenergy.com>; Littrell, Kyle <Kyle_Littrell@xtoenergy.com> **Subject:** Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Morning,

Please find attached the initial form C-141 detailing the accidental release of fluids and associated fire at the referenced facility. Thank you and contact us any time with questions or concerns.

Respectfully,

Amy C. Ruth

Delaware Basin Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | 0: 575.689.3380



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From: Littrell, Kyle
Sent: Thursday, January 18, 2018 2:03 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc: Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject: Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

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Bratcher, Mike, EMNRD

From:	Ashley Ager <aager@ltenv.com></aager@ltenv.com>
Sent:	Friday, March 23, 2018 4:56 PM
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD
Cc:	stucker@blm.gov; Adrian Baker; Littrell, Kyle
Subject:	Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017,
	2RP-4601
Attachments:	Proposed Work Plan Golden 8 Federal CTB.PDF

Crystal,

Please find attached a work plan for addressing historic and recent releases at the Golden 8 Federal Central Tank Battery. The report includes preliminary results from initial surface sampling and proposes additional sampling and remediation work.

The work plan covers the following releases at the location: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Please let me know if you have any questions and have a nice weekend.

Ashley

Ashley Ager, M.S., P.G. Senior Geologist/Vice President of Regional Offices



LT Environmental, Inc. 848 East 2nd Avenue Durango, Colorado 81301 (970) 385-1096 office (970) 946-1093 mobile www.ltenv.com

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COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.

3300 North A Street Building 1, Suite 103 Midland, Texas 79705 432-704-5178

March 22, 2018

Ms. Crystal Weaver New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Proposed Work Plan Golden 8 Federal Central Tank Battery 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601 XTO Energy, Inc. Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), proposes the following work plan to investigate impacted soil at the Golden 8 Federal Central Tank Battery (Site) in response to multiple historic releases and one recent release of crude oil and produced water. All releases were reported to the New Mexico Oil Conservation Division (NMOCD) on multiple Release Notification and Corrective Action Forms C-141s dating from June 14, 2010 through November 26, 2017. The historic releases (2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017) occurred while the Site was owned by a former operator but were never closed; the more recent release (2RP-4601) occurred after XTO assumed operation of the Site. This work plan is being submitted in response to the conditions of approval from the NMOCD documented on the C-141 for 2RP-4601. However, LTE had already begun investigating historical impact to soil. As such, LTE is presenting the results of preliminary sampling of both historic and new releases in this report. LTE proposes to address all releases concurrently with this work plan that includes additional delineation and subsequent remediation by excavation.

BACKGROUND

The Site is located in northeast quarter of the southwest quarter of Section 8 within Township 21 South and Range 29 East in Eddy County, New Mexico (Figure 1). Depth to groundwater at the Site is estimated to be greater than 200 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is CP 00516, located approximately 1.41 miles west-southwest of the Site with a depth to groundwater of 205 feet and total depth of 275 feet. The closest surface water to the Site is a seasonal playa lake located approximately 4,366 feet to the southeast of the Site. Based on these criteria, the New Mexico Oil Conservation Division (NMOCD) site ranking for remediation action levels is a 0 and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE proposes a site-specific chloride action level of 600 mg/kg or within range (±10%) of background concentrations.

The releases affected areas on and off the well pad. Five of the releases occurred at the tank battery where most of the fluids were contained in an earthern berm. A release at the heater treater was contained in a lined containment. The most recent release was the result of a fire at the flare that caused a mist to settle over the pasture off site. As reported on the C-141s, all standing fluids were recovered during initial response activities. The releases and the areas they impacted are summarized as follows:

Weaver, C.

Page 2

Release Permit Number	Date of Release	Oil Released (bbls)	Produced Water Released (bbls)	Description of Impacted Area
2RP-521	6/14/2010	90	0	Inside tank battery containment
2RP-633	2/16/2011	310	0	Inside tank battery containment and approximately 400 ft ² of pasture outside the tank battery
2RP-2082	11/25/2013	6	15	Inside tank battery containment
2RP-2439	8/12/2014	3	38	Inside tank battery containment
2RP-3612	2/1/2016	30	0	Approximately 3,060 ft^2 of the well pad at the heater treater and approximately 600 ft^2 of pasture east of the tank battery
2RP-4017	11/26/2016	32	0	Approximately 3,168 ft^2 of the pad near the 2-phase vessel and mist over the pasture east of the well pad
2RP-4601	1/18/2018	<1	0	Mist over approximately 2,600 ft ² of pasture south of the well pad

Notes: bbls - barrels

 ft^2 – square feet

PRELIMINARY SOIL SAMPLING

LTE collected a total of 16 soil samples from the Site on the following dates: March 3, 2018, March 6, 2018, and March 9, 2018. LTE has depicted the sample locations on Figure 2, Figure 3, and Figure 4. The sample groups represented on the different figures are based on the location of the source (e.g. samples for releases associated with the tank battery are on Figure 2). During the site visits, LTE confirmed the release footprint based on visual observations of soil staining or used the associated C-141 information to approximate the affected area. To investigate potential impact to soil, LTE collected samples at the surface of the recent release and from approximately 6 inches below ground surface by hand auger at the historic releases. All surface and subsurface soil samples were submitted to a certified laboratory for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021, TPH – gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) by EPA Method 8015, and chloride by EPA Method 300.1.

Laboratory analytical results indicate three of sixteen samples contained concentrations of contaminants that exceeded NMOCD regulatory standards. One sample west of the tank battery, and one sample in the pasture south of the well pad contained TPH concentrations exceeding NMOCD standards. A sample southwest of the tank battery collected just beneath the ground surface contained chloride concentrations exceeding NMOCD regulatory standards, but an additional sample collected at 6 inches bgs did not contain detectable chloride concentrations. Laboratory analytical results are presented on Figures 2, 3, and 4 and on Tables 1, 2, and 3. The complete laboratory analytical reports are attached.

ADDITIONAL DELINEATION

Additional investigation of soil impact will be conducted. LTE proposes to address 2RP-633, 2RP-3612 and 2RP-4017, which involved releases extending east of the well pad, by advancing boreholes via hand auger or pot holing in the locations identified on Figure 2. Continuous soil samples will be logged and



Weaver, C. Page 3

described using the Unified Soil Classification System (USCS) to delineate potential hydrocarbon and saltwater impacts. The intervals from immediately beneath the ground surface and then every five feet thereafter will be screened for volatile aromatic hydrocarbons as well as any soil that is stained or has a hydrocarbon odor using a photo-ionization detector (PID). Soil samples with the highest PID result or from the bottom of each borehole will be submitted to a certified laboratory for analysis of BTEX, TPH –GRO, DRO, and MRO by EPA Method 8015, and chloride by EPA Method 300.1. Additional soil borings will be advanced radially in approximately 50-foot intervals from any soil boring demonstrating significant evidence of impacts. The soil borings will be advanced until field screening suggests the extent of hydrocarbon and chloride soil impact is below NMOCD standards based on site ranking, and laboratory analysis will be used to confirm field results. LTE will require Bureau of Land Management (BLM) clearance to disrupt the off-pad area.

On the well pad, LTE will collect surface samples from inside containments where possible as shown on Figure 2. Additionally, LTE will advance soil borings at the locations on the well pad where concentrations of TPH and/or chloride were previously identified exceeding NMOCD standards to delineate vertical extent of observed impact to soil (Figure 2 and Figure 3). LTE will follow the same sampling methods previously described.

PROPOSED REMEDIATION

Because initial sampling results suggest impact is restricted to certain areas, LTE proposes using heavy equipment in the two soil sampling areas on the well pad that are noncompliant with NMOCD standards to excavate impacted soil. As soil is removed, LTE personnel will conduct field screening of organic vapor concentrations with a photoionization detector (PID) according to New Mexico Oil Conservation Division (NMOCD) headspace techniques and chloride using Hach® chloride test strips to determine if additional excavation is required. Once field screening results indicate impacted soil had been removed, LTE will collect confirmation soil samples of the sidewalls and floor of any excavation. Soil samples will be collected to cover approximately every 50 square feet of floor of the excavation and every 50 linear feet of sidewalls. Soil samples will be stored on ice and delivered to a certified laboratory under strict chain-of-custody procedures. Since benzene and BTEX results in preliminary samples were below detection limits, no BTEX will be analyzed in the confirmation samples. The soil samples will be analyzed for TPH – GRO, DRO, and MRO by EPA Method 8015B and chloride by EPA Method 300.1.

For the area affected by misting south of the well pad, the sample collected from 0.5 feet bgs serves as the confirmation soil sample. Impacted soil above 0.5 feet bgs will be removed and no additional samples will be collected in that area. Once soil delineation sampling is complete east of the well pad, LTE will address that off-pad area via excavation as previously described.

Soil excavation will address the full lateral extent of impact encountered. LTE will attempt to excavate the full vertical extent of impact; however, should impact extend beyond four feet bgs, LTE will provide NMOCD with a status update and request to install a 20-mil impermeable liner over residual impacted soil. LTE will include construction specifications in that request, which will be specific to existing site conditions. All excavated soil will be transported to Lea Land (NMOCD Permit # WM01) for disposal. Upon receipt of samples documenting compliance with NMOCD standards, LTE will backfill the on-site excavated area with new caliche. Should backfill be required in the off-site area, LTE will apply soil that meets blends with the native surroundings.



Weaver, C. Page 4

REPORTING

XTO will prepare a report documenting all field activities and describing results for submittal to the NMOCD. The report will include site maps and a table of laboratory analytical results. A report will be submitted within two weeks of receipt of laboratory analytical reports. Should this work plan need revision based on results of additional delineation or site conditions during remediation work, LTE will submit by email preliminary results to NMOCD with proposed changes and/or requests for modifications.

SCHEDULE

XTO will complete the investigation within four weeks of the date of approval of this work plan by NMOCD.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at aager@ltenv.com or Kyle Littrell at XTO at (970) 317-1867 or Kyle_Littrell@xtoenergy.com.

Sincerely, LT ENVIRONMENTAL, INC.

Adrian Baker Project Geologist

Ashley L. ager

Ashley U. Ager, P.G. Senior Geologist

Attachments:

Figure 1	Site Location Map
Figure 2	Site Sample Locations (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)
Figure 3	Site Sample Locations (2RP-3612, 2RP-4017)
Figure 4	Site Sample Locations (2RP-4601)
Table 1	Soil Analytical Results (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)
Table 2	Soil Analytical Results (2RP-3612, 2RP-4017)
Table 3	Soil Analytical Results (2RP-4601)

Attachment 1 Initial NMOCD Forms C-141

Attachment 2 Laboratory Analytical Reports

Cc: Kyle Littrell, XTO Mike Bratcher, NMOCD Shelly Tucker, BLM FIGURES



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TABLES



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TABLE 1 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL CTB 2RP-633, 2RP-521, 2RP-2082, 2RP-2439 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7,100	686	7,790	17.3
SS02	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1,540	82.7	1,620	<4.95
SS03	0.5	3/6/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1,700	89.9	1,790	<4.91
SS04	0.5	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181.0	<4.93
SS05	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3,900	604	4,500	<4.92
NMOCD Regulatory	v Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard.



TABLE 2 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL #1 2RP-3612 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	<5.0	230	410	640	53
SS02	0.5	03/03/2018	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	<4.7	<10	<50	<50	1,700
SS03	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	<4.8	11	54	65	430
SS04	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	<5.0	<9.9	71	71	<30
SS05	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	<4.8	<10	<50	<50	<30
NMOCD Regulate	ory Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - Not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard.



TABLE 3 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL BATTERY #1 2RP-4601 EDDY COUNTY, NEW MEXICO

XTO ENERGY INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7100	686	7,790	17.3
SS02	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1540	82.7	1620	<4.95
SS03	Surface	03/06/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1700	89.9	1790	<4.91
SS04	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181	<4.93
SS05	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3900	604	4500	<4.92
SS06	0.5	3/9/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	63.6	<15.0	63.6	<4.90
NMOCD Regulator	y Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface BTEX - benzene, toluene, ethylbenzene, and total xylenes mg/kg - milligrams per kilogram NE - not established NMOCD - New Mexico Oil Conservation Division TPH - total petroleum hydrocarbons



ATTACHMENT 1

ORIGINAL FORMS C-141



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Page 26 of 106

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atriat I	a .	NN	A OIL CONSERVATION				
strict I 25 N. French Dr., Hobbs, NM 88240 strict II	State of Energy Minerals	New Mexico and Natural Resource	ARTESIA DISTRICT Form C-141 S FFR 0 2 2018 Revised August 8, 2011				
1 S. First St., Artesia, NM 88210 strict III	Oil Conse	rvation Division	Submit 1 Copy to appropriate District Office in				
00 Rio Brazos Road, Aztec, NM 87410 strict IV	1220 Sout	h St. Francis Dr.	accordance with 19.15.29 NMAC.				
20 S. St. Francis Dr., Santa Fe, NM 87505	Santa F	e, NM 87505					
Re	lease Notificatio	n and Corrective	Action				
AB1803638613	RNDAN ALMAZIA	OPERATOR	🛛 Initial Report 🔲 Final Report				
Address: 522 W. Mermod, Suite 704 Car	rlsbad, N.M. 88220	Telephone No. 432-221	-7331				
acility Name: Golden 8 Federal Battery &A in 2011)	#1 (Well #1 was	Facility Type: Explorati	ion and Production				
urface Owner: Federal	Mineral Owner:	Federal	API No. 30-015-26931				
	LOCATIO	N OF RELEASE					
Jnit LetterSectionTownshipRangeC821S29E	Feet from the North 1530 South	h/South Line Feet from the 2375	he East/West Line County West Eddy				
L	atitude <u>32.490876°</u>	Longitude -104.007	7 <u>627°</u>				
ype of Release Fire/Crude Oil	NATURE	Volume of Release	Volume Recovered				
ource of Release Flare		Date and Hour of Occur	rence Date and Hour of Discovery				
Was Immediate Notice Given?		1/18/2018, 10:00 AM	1/18/2018, 10:00 AM				
Yes	🗋 No 📋 Not Required	Mike Bratcher/Crystal V	Weaver (NMOCD), Shelly Tucker/Jim Amos (BLM)				
y Whom? Kyle Littrell		Date and Hour 1/18/2	018 2:03 PM				
Vas a Watercourse Reached?	🛛 No	If YES, Volume Impacting the Watercourse. N/A					
f a Watercourse was Impacted, Describe Fully	y.*	_					
Describe Cause of Problem and Remedial Activities of Problem and Remedial Activities of the second state o	ion Taken.* ausing fluid to exit the faci opened and all wells flow aken.*	lity flare. A small amount of ving into location were shut	of exiting fluids ignited and impacted the ground within in.				
vest and east). An environmental contract cor	npany applied MicroBlaze	to the affected area and wi	Il continue to assist with remediation efforts.				
hereby certify that the information given abo egulations all operators are required to report ublic health or the environment. The accepta hould their operations have failed to adequate or the environment. In addition, NMOCD acc	ve is true and complete to and/or file certain release in nce of a C-141 report by the ty investigate and remedia eptance of a C-141 report of	the best of my knowledge a notifications and perform con- he NMOCD marked as "Fir- the contamination that pose does not relieve the operato	Ind understand that pursuant to NMOCD rules and orrective actions for releases which may endanger hal Report" does not relieve the operator of liability a threat to ground water, surface water, human health or of responsibility for compliance with any other				
ederal, state, or local laws and/or regulations.			ONSERVATION DIVISION				
ederal, state, or local laws and/or regulations.	-11	<u>OIL C</u>	ONSERVATION DIVISION				
ignature: Kyle Littrell	1	Approved by Environmen	tal Specialist:				
ignature: 'rinted Name: Kyle Littrell 'itle: Environmental Coordinator	d _	Approved by Environmen Approval Date: 25	tal Specialist: WADAW 18 Expiration Late: NIA				
ederal, state, or local laws and/or regulations. ignature: Kyle Littrell 'inted Name: Kyle Littrell 'itle: Environmental Coordinator -mail Address: Kyle Littrell@xtoenerev	.com	Approved by Environmen Approval Date: 25	tal Specialist: WHADW				

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/2/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-400 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/2/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Sent:	Ruth, Amy <amy_ruth@xtoenergy.com> Friday, February 2, 2018 9:49 AM</amy_ruth@xtoenergy.com>
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
Subject:	Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
Attachments:	Initial C-141 - Golden Federal D,8,17 CTB 1-18-18.pdf

Good Morning,

Please find attached the initial form C-141 detailing the accidental release of fluids and associated fire at the referenced facility. Thank you and contact us any time with questions or concerns.

Respectfully,

Amy C. Ruth

Delaware Basin Division Environmental Coordinator 3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380



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From: Littrell, Kyle
Sent: Thursday, January 18, 2018 2:03 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc: Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject: Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

Bratcher, Mike, EMNRD

From: Sent:	Littrell, Kyle <kyle_littrell@xtoenergy.com> Thursday, January 18, 2018 2:03 PM</kyle_littrell@xtoenergy.com>
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
Subject:	Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

An ExxonMobil Subsidiary

trict 1 5 N. French Dr. Hobbs, NM 88240 State				·		Page 31 of		
trict II Energy Miner	e of N rals a	Jew Mex nd Natura	ico l Resource		ECEIVE	Form C-14 Revised October 10, 200		
1 W. Grand Avenue, Artesia, NM 88210 trict III Oil Cor	heam	ation Div	vision	J	UN 22 201	Submit 2 Copies to appropriate		
0 Rio Brazos Road, Aztec, NM 87410 1220 Sc	outh	St France	is Dr			District Office in accordance		
0 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe,	NM 875	05	NMC	DCD ARTE	SIA with Rule 116 of bac side of for		
20-015-26931 Release Notificat	tion	and Co	rrectiv	e Act	ion	ระสมสีร้างเราสินการที่ <u>สร</u> รมสาขางแรง สาว ราการการให้การการการการที่สาว		
NW 1035646177		OPERA	ΓOR		🛛 Initia	al Report 🛛 🗌 Final Rep		
ame of Company BOPCO, L.P. 260737	C	Contact Tor	y Savoie					
ddress 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		elephone N	No. 432-556	5-8730				
Icility Name: Golden 8 Federal Battery #1	F	acility Typ	e E&P			·		
urface Owner Federal Mineral Own	ner Fe	deral			Lease N	lo		
LOCAT	ION	OF REI	LEASE					
nit LetterSectionTownshipRangeFeet from theNoK821S29E	lorth/S	outh Line	Feet from t	the E	ast/West Line	County Eddy		
Latitude_N 32.4914	438_	Longitu	de W 104.0	008147		· · ·		
NATU	RE (OF REL	EASE	<u></u>				
/pe of Release: Crude of		Volume of Crude oil	Release: 90	90 Bbls of Volume Recovered: 80 bbls of crude				
burce of Release: Drain line connection on the back of a 500 bbl. tar	ink	Date and Hour of Occurrence Date and Hour of Discovery				Hour of Discovery		
'as Immediate Notice Given? 🛛 🖂 Yes 🔲 No 🗌 Not Requi	iired	d Randy NMOCD on call operator						
y Whom? Tony Savoie		Date and H	lour 6/14/10	9:24 a.	m.			
'as a Watercourse Reached?		If YES, Volume Impacting the Watercourse.						
a Watercourse was Impacted, Describe Fully.*								
escribe Cause of Problem and Remedial Action Taken.* The drain I I in the tank was removed, the tank was cleaned, inspected and repa	line co aired b	onnection on y replacing	the back of the connection	the tank ons and	failed due to ir coating the tank	iternal corrosion, the remaining tinternally.		
escribe Area Affected and Cleanup Action Taken *The released flu	uid affe	eted an area	of approvin	nately 2	000 sq. ft insid	e the earthen containment		
ound the tanks. The free standing fluids were removed. The heavily	y satur.	ated soil is i	n the process	s of bein	g removed and	placed on plastic. The area		
side the containment area will be sampled to determine vertical extenses and site area will will fellow the NMOCD	ent; a	remediation	plan along v	vith a ne	w containment	plan will be submitted.		
hereby certify that the information given above is true and complete	guiden e to the	e best of my	s and spills. knowledge a	and unde	erstand that pure	suant to NMOCD rules and		
gulations all operators are required to report and/or file certain relea	ase no	tifications a	nd perform c	orrectiv	e actions for rel	eases which may endanger		
ould their operations have failed to adequately investigate and reme	by the ediate	NMOCD m	arked as "Fii on that pose	nal Repo	ort" does not rel	eve the operator of liability		
the environment. In addition, NMOCD acceptance of a C-141 repu	ort do	es not reliev	e the operato	or of resp	onsibility for c	ompliance with any other		
deral, state, or local laws and/or regulations.				ONGE	DVATION	DIVICION		
				UNSE	<u>ATION</u>	DIVISION		
gnature: 1 ony Laure	A	Approved by District Supervisor:						
inted Name: Tony Savoie			Signed	By 7	11/4 Dren	nulon_		
tle: Waste Mgmt.& Remediation Specialist	A	pproval Dat	e: 3/3/	///	Expiration	Date:		
mail Address: TASavoic@BassPet.com	C	onditions of	Approval:		• •	Attached		
mail Address: TASavoic@BassPet.com ite: 6/22/10 Phone:432-556-8730	30	Reme	adiation pe	er OCD	Rules &	Attached 🔲		
mail Address: TASavoie@BassPet.com ate: 6/22/10 Phone:432-556-8730 tach Additional Sheets If Necessary	<u>30</u>	Reme Guideline	Approval: ediation pe s. SUBMI	er OCD F REMI	Rules &	Attached		

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R	Received by OCD: 9/17/2024 7:39:57 AM Page 33								Page 33 of 106				
	District I 1625 N. French Dr., Hobbs, NM 88240 District II				State of New Mexico Energy Minerals and Natural Resources					Form C-14 Revised October 10, 200			
	1301 W. Grand District III	Grand Avenue, Artesia, NM 88210					rvation Div	vision		Submit 2	Copies to appropriate		
	District IV	o Brazos Road, Aztec, NM 87410 <u>IV</u> 1220 Sout					th St. Franc	is Dr.		V	vith Rule 116 on back		
	1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750.)	Sa	inta F	Fe, NM 875	05			side of form		
, ,	30-015-2	26931		Rele	ease Notific	eatio	n and Co	orrective A	ction				
K	KMU	11066	<u>29393</u>	<u></u>	コレカリョウ		OPERA'	I'OR	∐ Ir	itial Report	Final Report		
	Address 52	2 W. Merr	nod, Suite 70)4 Carlsb	ad, N.M. 88220		Telephone N	No. 432-556-87	30				
	Facility Nat	me: Golde	n 8 Federal I	Battery #	1		Facility Typ	e E&P					
	Surface Ow	mer Federa	al		Mineral C	Owner	Federal		Leas	e No.			
					LOCA	TIO	N OF REI	LEASE					
	Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the	Nort	h/South Line	Feet from the	East/West Lir	e County Eddy			
	L	1		II	Latitude_N 32.4	191352	2 Longitu	ide W 104.0082	223				
					NAT	URE	C OF REL	EASE					
	Type of Rele	ase: Crude	Oil .				Volume of Crude oil	Release: 310 Bb	ls Volun	e Recovered:	290		
	Source of Re	lease: 500 l	bbl tank overf	low			Date and H 2/16/11 ho	lour of Occurrent ur not known	ce Date a 2/16/1	Date and Hour of Discovery 2/16/11 10:00 a.m.			
	Was Immedi	ate Notice (Given?	Yes [] No 📋 Not R	equirec	If YES, To Whom? NMOCD emergency reporting. Left message with details.						
	By Whom?	Tony Savoi	e -1 - 19				Date and H	lour 2/16/11 1:30) p.m.				
	was a water	course Rea]Yes 🛛	No			siume impacting	the watercourse	ECE	VED		
	If a Waterco	urse was Im	npacted, Descr	ibe Fully.	*		MAR 02 2011						
	Describe Ca	use of Probl	lem and Reme	dial Actio	on Taken.* A 500	bbl. Oi	il product tank	overflowed due t	o a heater-treate	malfunction.	The heater-treater		
	was repaired and put back in service. Describe Area Affected and Cleanup Action Taken.*An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area pasture land outside the containment measuring approximately 400 sq. ft. The area outside the containment had been affected by a previous flow line reported to the NMOCD on 10/6/10. The oil saturated soil outside the containment was removed by Basin Env. using a hydro-vac. Approximately 29 of crude oil was recovered from inside the containment. The area inside the containment was covered with soil to absorb small areas of free product. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.								ft. and an area of vious flow line spill proximately 290 bbls of free product.				
	regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								h may endanger erator of liability vater, human health with any other				
			\sim	3				<u>OIL CON</u>	SERVATIC	<u>N DIVISI</u>	ON		
	Signature:	1 ong	a	mo			Approved by District Supervisor. Signed By Mile Demonstra						
	Title: Waste	Mgmt.& R	emediation Sp	oecialist			Approval Dat	te: 3/7/11	Expirat	on Date:			
	E-mail Addr	ess: TASav	oie@BassPet.	com			Conditions of	f Approval:		Attache	d 🗍		
	Date: 3/3/11			F	Phone:432-556-87	30	Reme	diation per OC	D Rules &		-		
*	* Attach Additional Sheets If Necessary						Guidelines PROPOSA	5. SUBMIT REM L NOT LATER 7 4/7/11	MEDIATION THAN:	<u></u>	2 R.P. 633		
	-							77					

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Released	' to	Imaging:	9/1	7,	/2024	7:4	41:46	
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eceived by O	C D: 9/17/ 2	2024 7:39:5	7 AM								Page	34 of 106
District I 1625 N. French District II	Form C-141 Revised August 8, 2011											
811 S. First St., Artesia, NM 88210 NOV 2 6 2013 Oil Conservation Division Submitted in the second										bmit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.		
	(Rele	ease Notific	ation	and Co	orrective A	ction			<u></u>	
M	N1333	305360	20			OPERA	ΓOR		🛛 Initia	al Report	🗌 Fi	inal Report
Name of Co	ny Savoie	20										
Facility Nat P&A 2011	ne: Golder	n 8 Federal E	Battery #1	, the Well $\#1$ wa	is I	Facility Typ	e: Exploration	and Pro	duction			
Surface Ow	ner: Feder	al		Mineral O	wner: l	Federal			API No	. 30-015-20	6931	
				LOCA	TIO	N OF REI	LEASE	4				
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the 1650	North/ South	South Line	Feet from the 2180	East/V West	West Line	County Eddy		
				Latitude <u>N 32.</u>	49114	Longitude	e W 104.00777	<u>5</u>				
Type of Rele	ase: Crude	oil and produc	ed water	NAT	<u>URE</u>	OF REL	EASE Release: 6 Bbls	of	Volume F	Recovered: 3	Bbls oil a	and 2 Bbls
Course of Do	lesses Llost	n tuoton fina t				crude oil and 15 Bbls water wa				water.		
Source of Re		er-treater nre	ube			Date and Hour of Occurrence. Date and Hour of Discovery. Date Date 11/25/13 Time unknown 11/25/13 Time approximately 9:00					:00 a.m.	
Was Immedi	ate Notice (Given?	Yes] No 🛛 Not Re	quired	If YES, To	Whom?					
By Whom?						Date and Hour						
Was a Water	course Read	ched?	Yes 🗵] No		If YES, Vo	olume Impacting	the Wate	ercourse.			
If a Watercou	urse was Im	pacted, Descr	ibe Fully.'									
	CD 11	1.0	<u></u>									
The fire tube	on the heat	em and Reme er-treater devo	dial Actio eloped a le	n Taken.* eak, the production	ı was sv	vitched out of	f the vessel, a vac	cuum tru	ck was disp	batched to th	e site to re	ecover the
free product.												
Describe Are	a Affected	and Cleanup A	Action Tal									
The spill imp	acted appro	oximately 900	sq. ft. of t	he tank battery ear	then co	ntainment ar	ea. The spill impa	acted an	area that ha	ad been clear	ned up as	far as
be re-address	be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous spill.											
I hereby certi regulations a public health should their o or the envirou federal, state.	ify that the i Il operators or the envi operations h nment. In a , or local lay	information gi are required t ronment. The bave failed to a iddition, NMC ws and/or regu	ven above o report an acceptane adequately OCD accep ilations.	e is true and compl nd/or file certain re ce of a C-141 repo y investigate and re otance of a C-141 r	ete to the elease no rt by the emediate report de	ne best of my otifications a e NMOCD m e contaminati oes not reliev	knowledge and t nd perform corre arked as "Final F on that pose a th e the operator of	understa ctive act Report" c reat to gu respons	nd that purs ions for rel loes not rel round wate ibility for c	suant to NM eases which ieve the oper r, surface wa ompliance w	OCD rules may enda rator of lia ater, huma vith any ot	s and inger ability n health ther
OIL CONSERVATION DIVISION												
Signature:	<u>í Oru</u> e: Tony Sav		u			Approved by	Environmental S	Specialis	t:	alite d	Kenner	
Title: Waste	Managemei	nt and Remedi	ation Spe	cialist		Approval Da	QV 26201	<u>13</u>	Expiration	Date:	<u>ir na Und C</u>	<u> - L </u>
E-mail Addre	ess: tasavoi	e@bassnet.co	n			Conditions of	fAnnroval	I				
	Remediation per OCD Rule & Guidelines, & Attached											

like approval by BLM. <u>SUBMIT REMEDIATION</u> <u>PROPOSAL NO LATER THAN:</u> <u>Cermber 26,2013</u>

2RP-2082

	Date:	Phone: 432-556-8730
*	Attach Additional	Sheets If Necessary

Rectioned by 3080= 9/17/2024793 4.5 PAMP /2/11










i <u>strict I</u> 25 N. French Dr., Hobbs, NM 88240							Page 39 of
	State	of New Mex	ico	А	UG 13	2014	Form C-1
strict II Ene Ene	rgy Miner	als and Natura	l Resources				Revised August 8, 2
Istrict III	Oil Con	servation Div	vision	Sub	RECEDY	E approp	riate District Office
00 Rio Brazos Road, Aztec, NM 87410	1220 So	uth St. Franc	vis Dr.		ac	cordance v	with 19.15.29 NMA
20 S. St. Francis Dr., Santa Fe, NM 87505	Santa	Fe, NM 875	505				
Release N	lotificat	ion and Co	orrective A	ction		1997 - A.	
AB1422637219	+21	OPERA'	TOR		🛛 Initia	al Report	Final Re
Name of Company: BOPCO, L.P.	37	Contact: 10	ny Savoie	20			
Facility Name: Golden 8 Federal Battery #1, the W	ell #1 was	Facility Typ	be: Exploration a	ind Pro	duction		
Surface Owner: Federal M	fineral Own	er: Federal			API No	. 30-015-	26931
		ON OF RE	LEASE		711 1 1 10		
Jnit LetterSectionTownshipRangeFeet fromK821S29E1650	om the No	orth/South Line uth	Feet from the 2180	East/V West	Vest Line	County Eddy	
Latitu	de_N 32.49	141 Longitud	e <u>W 104.007775</u>	5			
	NATUI	RE OF REL	EASE				
Гуре of Release: Crude oil and produced water	~	Volume of crude oil a	f Release: 3 Bbls o and 38 Bbls water	of	Volume F Bbls wate	Recovered: er.	1 Bbl. oil and 17
Source of Release: Victaulic fitting on the production hea	ader.	Date and H Date 8/12/	Hour of Occurrenc 14 Time unknowr	ence: Date and Hour of Discovery: Date own 8/12/14 Time approximately 10:30 a.r			
Was Immediate Notice Given?] Not Requi	If YES, To red NMOCD I	If YES, To Whom? ANMOCD Emergency #104				
By Whom? Tony Savoie		Date and H	Date and Hour: 8/12/14 at 12:10 p.m.				
Was a Watercourse Reached?		If YES, Vo	olume Impacting t	he Wate	ercourse.		
f a Watercourse was Imposted Describe Eully *			N	MOIL	CONSE	RVATIO	DN
Ta watercourse was impacted, Describe Puny.				AR	TESIA DIS	TRICT	
				Δ	UG 13:	2014	
Describe Cause of Problem and Remedial Action Taken	*					۲014	
Describe Cause of Problem and Remedial Action Taken. A Victaulic gasket failed on the production header due to The gasket was replaced and the valve was returned to no	* a normally o ormal.	open valve was sl	hut causing pressu	re to bu	ild up and RECEIV	blow out ti ED	ne gasket.
Describe Cause of Problem and Remedial Action Taken. A Victaulic gasket failed on the production header due to The gasket was replaced and the valve was returned to no Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank practicable in the area around the vessels and lines during mpacted by spill reference 2RP-2082. The area will be re- rom the previous two spills.	* o a normally o ormal. battery earth g a remediati e-addressed,	open valve was sl en containment a on at the facility cleaned up as rec	hut causing pressu area. The spill imp in August of 2011 quired and a new c	re to bu f vacted ar , referer closure r	n area that l nce 2RP-63 eport will b	blow out the blow out the blow out the blow out the block of the block	ne gasket. leaned up as far as same are as ed including data
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Describe Cause of Problem and Remedial Action Taken. A Victaulic gasket failed on the production header due to The gasket was replaced and the valve was returned to no Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank bracticable in the area around the vessels and lines during impacted by spill reference 2RP-2082. The area will be re- from the previous two spills. I hereby certify that the information given above is true a regulations all operators are required to report and/or file bublic health or the environment. The acceptance of a C- should their operations have failed to adequately investig or the environment. In addition, NMOCD acceptance of rederal, state, or local laws and/or regulations. Signature: <u>Graphane</u> Signature: <u>Savoie</u> Title: Waste Management and Remediation Specialist	* o a normally o ormal. battery earth g a remediati e-addressed, and complete c certain relea -141 report b gate and reme a C-141 repo	en containment a on at the facility cleaned up as rec to the best of my se notifications a y the NMOCD m diate contaminat ort does not reliev Approved by Approval Da	hut causing pressu area. The spill imp in August of 2011 quired and a new c whowledge and u and perform correct narked as "Final R ion that pose a thr ve the operator of <u>OIL CON</u>	acted ar , referer closure r nderstan ctive act eport" d eat to gr responsi SERV	ild up and RECEIV n area that l nce 2RP-63 eport will b nd that purs ions for rel loes not rel ibility for c ATION	blow out the ED had been c 3. And the be submitted suant to NM eases which ieve the op r, surface which ompliance DIVISI	ne gasket. leaned up as far as same are as ed including data MOCD rules and h may endanger water, human healt with any other ON
Describe Cause of Problem and Remedial Action Taken. A Victaulic gasket failed on the production header due to The gasket was replaced and the valve was returned to no Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank practicable in the area around the vessels and lines during impacted by spill reference 2RP-2082. The area will be re- from the previous two spills. I hereby certify that the information given above is true a regulations all operators are required to report and/or file public health or the environment. The acceptance of a C- should their operations have failed to adequately investig or the environment. In addition, NMOCD acceptance of rederal, state, or local laws and/or regulations. Signature: <u>600</u> Basspet.com <u>Fitle: Waste Management and Remediation Specialist</u> <u>B-mail Address: tasavoie@basspet.com</u>	* o a normally o ormal. battery earth g a remediati e-addressed, and complete certain relea -141 report b gate and reme a C-141 report	en containment a on at the facility cleaned up as rec to the best of my se notifications a y the NMOCD rr diate contaminat ort does not reliev Approved by Approval Da Conditions o	hut causing pressu area. The spill imp in August of 2011 quired and a new c v knowledge and u and perform correct narked as "Final R ion that pose a thr ve the operator of <u>OIL CON</u> v Environmental S te: Signed By S te: Signed By S	acted ar , referer losure r nderstar trive act eport d eat to gr responsi SERV	illd up and RECEIV n area that l nce 2RP-63 eport will b nd that purs- ions for rel- loes not rel ibility for c ATION Expiration	blow out the ED had been c 3. And the be submitted suant to NN eases which ieve the op r, surface v ompliance DIVISI Date: Market Attache	he gasket. leaned up as far as same are as ed including data MOCD rules and h may endanger vater, human healt with any other ON A
Describe Cause of Problem and Remedial Action Taken. A Victaulic gasket failed on the production header due to The gasket was replaced and the valve was returned to no Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank bracticable in the area around the vessels and lines during impacted by spill reference 2RP-2082. The area will be refrom the previous two spills. I hereby certify that the information given above is true a regulations all operators are required to report and/or file bublic health or the environment. The acceptance of a C- should their operations have failed to adequately investig or the environment. In addition, NMOCD acceptance of rederal, state, or local laws and/or regulations. Signature: <u>Gue</u> <u>Button</u> Printed Name: Tony Savoie <u>Fitle: Waste Management and Remediation Specialist</u> <u>3-mail Address: tasavoie@basspet.com</u> Date:8/13/14 Phone: 4	* o a normally o ormal. battery earth g a remediati e-addressed, and complete c certain relea -141 report b jate and reme a C-141 report 	en containment a on at the facility cleaned up as rec to the best of my se notifications a y the NMOCD m diate contaminat ort does not reliev Approved by Approval Da Conditions o Reme	hut causing pressu area. The spill imp in August of 2011 guired and a new c whowledge and u and perform correct narked as "Final R ion that pose a thr ve the operator of <u>OIL CON</u> <u>Environmental S</u> signed By S tte: SIQUUL	acted ar , referer closure r inderstar eport" d eat to gr responsi SERV	ild up and RECEIVI n area that I nce 2RP-63 report will b nd that purs ions for rel- loes not rel- ibility for c VATION Expiration	blow out the ED had been c 3. And the be submitted suant to NM eases which ieve the op r, surface v ompliance DIVISI Matter Date: N	he gasket. leaned up as far as same are as ed including data MOCD rules and h may endanger berator of liability vater, human health with any other <u>ON</u> <u>A</u>

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Received	by	OCD:	9/17/20	024 7:3	9:57 AM	
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District I 1625 N. French Dr., Hobbs, NM 88240 District II Bill S. First SL, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District Wards Road, Aztec, NM 87410

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Er :- D

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011 MAR 1 5 2016

Submit 1 Copy to appropriate District Office in **RECEIVED**

220 S. St. Francis Dr., S	anta Fe, NM 8750	5	1220	South	I St. Franc	US Dr.	RECI		
			3a	mia Fe	, INIM 875				· · · · ·
		Kele	ase Notific	ation	and Co	orrective A	ction		
MABILD'12	37012	د.	<u> </u>	·	OPERA	FOR		nitial Repo	ort 🔲 Final Rep
Name of Company	BOPCO, L.P.	04.0.1.1	<u>340121</u>		Contact: An	ny Ruth	<u></u>		
Facility Name: Go	lermon, Suite /	04 Carise #001	ad, N.M. 88220	 _	Telephone r Facility Tyr	<u>NO. 575-887-752</u> e: Exploration a	29 and Productic		
Surface Owner: Fe	deral		Mineral C)wner:	Federal		AP	I No. 30-0	15-26931
			LOCA	TIO	N OF REI	LEASE			
Unit Letter Sectio K 8	n Township 21S	Range 29E	Feet from the 1650	North/ South	South Line	Feet from the 2180	East/West L West	ine Count Eddy	ly
		La	t itude <u>32.491</u> 2	242°	Longitude	e <u>-104.008322</u>	o 		
			NAT	URE	OF REL	EASE			
Type of Release	Crude Oil				Volume of	Release 30 bbls	: Volu	me Recover	ed 7 bbls
Source of Release	Heater Gas	ket		•	Date and H 2/1/2016 ti	Iour of Occurrenc me unknown	ce Date 2/1/2	and Hour of 016	f Discovery
Was Immediate Notic	ce Given?	Yes 🗌] No 🔲 Not Re	equired	If YES, To Mike Brate	Whom? cher/Heather Patte	erson (NMOCI	D), Jim Amo	os (BLM)
By Whom? Brad Blo	evins				Date and H	lour 2/2/2016 3	:26 pm		
Was a Watercourse F	tcached?]Yes 🛛	No		If YES, Volume Impacting the Watercourse. N/A				
If a Watercourse was	Impacted, Desci	ibe Fully.	k		i				
Describe Cause of Pr Gasket seal in heater gasket.	oblem and Reme treater ruptured	dial Actio and release	n Taken.* ed fluids onto loca	tion and	l pasture. Op	erator switched o	ut vessels unti	l repairs cou	ld be made to treater
Describe Area Affect Leak affected 3060 s	ed and Cleanup quare feet of wel	Action Tal l pad and a	ken.* Approximately 600) square	feet of pastur	re to the east of th	e battery. Star	nding fluids	were recovered.
I hereby certify that t regulations all operat public health or the e should their operation or the environment. federal, state, or loca	he information g ors are required nvironment. The ns have failed to In addition, NMC Llaws and/or reg	iven above to report and acceptance adequately OCD accept ulations.	t is true and comp nd/or file certain r ce of a C-141 report v investigate and r otance of a C-141	elete to the elease n ort by the emediat report d	he best of my otifications a e NMOCD π e contaminat loes not reliev	knowledge and u nd perform correct barked as "Final R ion that pose a thuy the operator of	inderstand that ctive actions for leport" does no reat to ground responsibility	pursuant to or releases w ot relieve the water, surfact for complian	NMOCD rules and thich may endanger e operator of liability ee water, human health nee with any other
Signature:	and the	the				OIL CON	SERVATI	ON DIVI	<u>ISION</u>
Printed Name:	Amy C. Ruth				Арргоуед Бу			~ NAM	110
Title: EHS Rem	ediation Speciali	st			Approval Da	ite: 9/8/11	U Expira	tion Date:	NIH
E-mail Address:	ACRuth@bassp	et.com			Conditions o Remedia	f Approval: Itlon per O.C.	D. Rules &		iched
Date: 3-15-	2016	Phone:	432-661-0571		SUBMIT	REMEDIATIC	N PROPO	SAL NO	
Attach Additional X	sneets If Neces	sary			LATER T	HAN:4	121110		ZRP.36

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Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, March 15, 2016 2:59 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	Biehl, William "Bill"
Subject:	RE: Golden 8 Federal 001
Attachments:	Initial C-141 Golden 8 Federal Battery 2-1-16.pdf

Hello Mike/Heather,

I've been on medical leave since the beginning of February. Brad would have turned in this C-141 to you, but I stubbornly told him I would get it to you to save him the trouble. I had since been incapacitated and you can see where that has gotten us! My apologies, here is the very late initial C-141 for the spill notified to you on the date below. Please call me with any questions/concerns. I also have one more to submit that is late that was not immediately reportable but occurred on the same day. That was at the JRU 36 and that C-141 will follow this email. As always, thank you for your patience...:)

-----Original Message-----From: Blevins, Bradley Sent: Tuesday, February 02, 2016 3:26 PM To: mike.bratcher@state.nm.us; heather.patterson@state.nm.us; Jim Amos Cc: Blevins, Bradley; Ruth, Amy C. Subject: Golden 8 Federal 001

All,

Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

Bratcher, Mike, EMNRD

From:	Blevins, Bradley <bblevins@basspet.com></bblevins@basspet.com>
Sent:	Tuesday, February 02, 2016 3:26 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Jim Amos
Cc:	Blevins, Bradley; Ruth, Amy C.
Subject:	Golden 8 Federal 001

All,

Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

NM OIL CONSERVATION

Page 43 of 106

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					NSERVA	TION
District I 1625 N. French Dr., Hobbs, NM 88240	State of	New Mexic	0	ARTESIA	DISTRICT	Form C-14
District II 811 S. First St., Artesia, NM 88210	Energy Minerals	and Natural]	Resources	NUV 2	9 2016	Revised August 8, 201
District III 1000 Rio Brazos Road, Aztec, NM 87410	Oil Conser	Oil Conservation Division				to appropriate District Office i cordance with 19.15.29 NMAC
District IV	1220 South	n St. Francis	Dr.	RECI	EIVED	
	Santa Fe	e, NM 8750	5			
Rele	ase Notification	n and Cor	rective	Action	1	
NHB1433656856	1.0000	OPERAT	OR		🛛 Initi	al Report 🔲 Final Rep
Name of Company: BOPCO, L.P.	UU'IS'/	Contact: Amy	<u>Ruth</u>	220		
Facility Name: Golden Federal Battery #1	au, 19.191. 00220	Facility Type:	Exploration	and Pro	duction	
Surface Owner: Federal	Mineral Owner:	Federal	· · · · ·		APINO	30-015-26931
					170110	. 50-015-20751
Unit Letter Section Township Range	LOCATIO	N OF RELI	EASE Feet from the	Fest/	West Line	County
K 8 21S 29E	1667 South		2300	West		Eddy
Lat	itude <u>32.491322°</u>	Longitude	-104.00786	5 <u>8°</u>		
	NATURE	OF RELE.	ASE			
Type of Release Crude Oil		Volume of R	elease		Volume I	Recovered
Source of Release 3 Phase Vessel		32 bbls	ur of Occurre		30 bbls	Hour of Discovery
		11/26/2016	time unknow	'n	11/26/201	6 approx. 10 am by operator
Was Immediate Notice Given?	No. D Not Required	If YES, To W	Vhom? er/Heather Pa	tterron (N		d lim Amos/Shelly Tucker
		(BLM)				
By Whom? Amy Ruth (within 2 hours of being	Date and Hour 11/28/2016 11:19 am					
Yes ⊠	N/A	ime impacini	g the wat	ercourse.		
If a Watercourse was Impacted, Describe Fully,*	· · · · · · · · · · · · · · · · · · ·					
N/A						
Describe Cause of Problem and Remedial Action	Taken.*					
Unused 3 phase vessel re-fitted and returned to o	peration. Fluids released	from vessel the	rough pressur	e relief va	lve and lea	king Vic connections. Fluids
escaped mostly into zero permeability containme	nı.					
Describe Area Affected and Classon Action Tak						
The leak affected a total of about 3,168 square fe	et of caliche pad, zero pe	rmeability cont	ainment, and	misted pa	isture east o	of the location. Free standing
liquids were recovered via vacuum truck and equ	ipment, tanks, and liner	were power was	shed. Vessel	was isolat	ted.	
				····		<u></u>
I hereby certify that the information given above regulations all operators are required to report an	is true and complete to the dominant of the second se	he best of my ki otifications and	nowledge and	l understa rective act	nd that purs ions for rel	suant to NMOCD rules and eases which may endanger
public health or the environment. The acceptance	e of a C-141 report by the	e NMOCD mar	ked as "Final	Report" o	loes not rel	ieve the operator of liability
should their operations have failed to adequately	investigate and remediat	e contamination	that pose a t	hreat to g	round water	r, surface water, human health
federal, state, or local laws and/or regulations.						
			OIL CO	NSERV	ATION	DIVISION
Signature: Jun Aul					Ø.1	J
Printed Name: AmuC Buth		Approved by E	nviron Bagnual	Specialis	A1/4 K) restanting
Thinks Paint. Ainy C. Kuti	· · · · · · · · · · · · · · · · · · ·		11120			NI/A
Title: EHS Environmental Supervisor		Approval Date:	IIIPI	HPI	Expiration	Date: N/
E-mail Address: ACRuth@basspet.com		Conditions of A	Approval:			Attached
Date: 11/29/2016 Phone: 42'	2-661-0571					
Attach Additional Sheets If Necessary						100 ANI
						2KP-401

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, November 29, 2016 2:50 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	RE: Release Notification - Golden Federal Battery 11-26-16
Attachments:	Initial C-141 Golden Federal Battery 11-26-16.pdf

Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

From: Ruth, Amy C.
Sent: Monday, November 28, 2016 11:19 AM
To: 'Mike Bratcher'; 'Heather.Patterson@state.nm.us'
Cc: jamos@blm.gov; Tucker, Shelly
Subject: Release Notification - Golden Federal Battery 11-26-16

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p. Latitude: 32.491241 Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.







Amy C. Ruth

BOPCO, L.P. EH&S Department

522 W. Mermod, Suite 704 Carlsbad, NM 88220 O: (575)689-3380 C: (432)661-0571

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Monday, November 28, 2016 11:19 AM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	Release Notification - Golden Federal Battery 11-26-16
	KOPC O

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p. Latitude: 32.491241 Longitude: -104.008324

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ATTACHMENT 2

LABORATORY ANALTYICAL REPORTS



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March 13, 2018

A Baker LTE 3300 N A St Bldg 1 #103 Midland, TX 79705 TEL: (432) 704-5178 FAX

RE: Golden 8 Federal 1 Tank Battery

OrderNo.: 1803223

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear A Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

3/7/2018 10:25:16 AM

1

36859

CLIENT:	: LTE			Client Sampl	e ID: SS	1					
Project:	Golden 8 Federal 1 Tank	Battery	ry Collection Date: 3/3/2018 9:30:00 AM								
Lab ID:	1803223-001	Matrix:	SOIL	Received I	Date: 3/6	5/2018 6:55:00 AM					
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch				
	THOD 300.0: ANIONS					Analys	: CJS				
Chloride	•	ND	30	mg/Kg	20	3/8/2018 2:54:50 PM	36903				
EPA ME	THOD 8015M/D: DIESEL RA	ANGE ORGANICS	5			Analys	TOM				
Diesel R	ange Organics (DRO)	ND	8.5	mg/Kg	1	3/7/2018 5:55:30 PM	36866				
Motor O	il Range Organics (MRO)	ND	43	mg/Kg	1	3/7/2018 5:55:30 PM	36866				
Surr:	DNOP	89.6	70-130	%Rec	1	3/7/2018 5:55:30 PM	36866				
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analys	: NSB				
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 10:25:16 AM	36859				
Surr:	BFB	94.9	15-316	%Rec	1	3/7/2018 10:25:16 AM	36859				
EPA ME	THOD 8021B: VOLATILES					Analys	: NSB				
Benzene	e	ND	0.025	mg/Kg	1	3/7/2018 10:25:16 AM	36859				
Toluene		ND	0.050	mg/Kg	1	3/7/2018 10:25:16 AM	36859				
Ethylber	nzene	ND	0.050	mg/Kg	1	3/7/2018 10:25:16 AM	36859				
Xylenes,	, Total	ND	0.099	mg/Kg	1	3/7/2018 10:25:16 AM	36859				

80-120

%Rec

105

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

3/7/2018 10:48:56 AM

3/7/2018 10:48:56 AM

3/7/2018 10:48:56 AM

1

1

1

36859

36859

36859

CLIENT: LTE			Client Sampl	le ID: SS	2					
Project: Golden 8 Federal 1 Tank Ba	attery	Collection Date: 3/3/2018 9:40:00 AM								
Lab ID: 1803223-002	Matrix: S	SOIL	Received	Date: 3/6	5/2018 6:55:00 AM					
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analysi	t: CJS				
Chloride	43	30	mg/Kg	20	3/8/2018 3:07:15 PM	36903				
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	;			Analyst	TOM				
Diesel Range Organics (DRO)	220	9.6	mg/Kg	1	3/7/2018 6:39:24 PM	36866				
Motor Oil Range Organics (MRO)	200	48	mg/Kg	1	3/7/2018 6:39:24 PM	36866				
Surr: DNOP	105	70-130	%Rec	1	3/7/2018 6:39:24 PM	36866				
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	I: NSB				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/7/2018 10:48:56 AM	36859				
Surr: BFB	96.1	15-316	%Rec	1	3/7/2018 10:48:56 AM	36859				
EPA METHOD 8021B: VOLATILES					Analyst	I: NSB				
Benzene	ND	0.024	mg/Kg	1	3/7/2018 10:48:56 AM	36859				
Toluene	ND	0.047	mg/Kg	1	3/7/2018 10:48:56 AM	36859				

0.047

0.094

80-120

mg/Kg

mg/Kg

%Rec

ND

ND

103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 1803223

Date Reported: 3/13/2018

3/7/2018 11:12:38 AM

1

36859

CLIENT:	: LTE			Client Sampl	e ID: SS	3	
Project:	Golden 8 Federal 1 Tank	Battery		Collection I	Date: 3/3	3/2018 9:50:00 AM	
Lab ID:	1803223-003	Matrix: S	SOIL	Received 1	Date: 3/6	5/2018 6:55:00 AM	
Analyses		Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	: CJS
Chloride		ND	30	mg/Kg	20	3/8/2018 3:19:40 PM	36903
EPA ME	THOD 8015M/D: DIESEL RA	ANGE ORGANICS	5			Analys	:: ТОМ
Diesel R	ange Organics (DRO)	38	10	mg/Kg	1	3/8/2018 11:50:16 AM	36866
Motor O	il Range Organics (MRO)	140	50	mg/Kg	1	3/8/2018 11:50:16 AM	36866
Surr:	DNOP	98.5	70-130	%Rec	1	3/8/2018 11:50:16 AM	36866
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analys	: NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2018 11:12:38 AM	36859
Surr:	BFB	96.6	15-316	%Rec	1	3/7/2018 11:12:38 AM	36859
EPA ME	THOD 8021B: VOLATILES					Analys	: NSB
Benzene	e	ND	0.025	mg/Kg	1	3/7/2018 11:12:38 AM	36859
Toluene		ND	0.049	mg/Kg	1	3/7/2018 11:12:38 AM	36859
Ethylber	nzene	ND	0.049	mg/Kg	1	3/7/2018 11:12:38 AM	36859
Xylenes.	, Total	ND	0.098	mg/Kg	1	3/7/2018 11:12:38 AM	36859

80-120

%Rec

104

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

3/7/2018 11:36:26 AM

1

36859

CLIENT:	: LTE			Client Sampl	e ID: SS	4	
Project:	Golden 8 Federal 1 Tank l	Battery		Collection l	Date: 3/3	3/2018 10:00:00 AM	
Lab ID:	1803223-004	Matrix: S	SOIL	Received 1	Date: 3/6	5/2018 6:55:00 AM	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: CJS
Chloride)	ND	30	mg/Kg	20	3/8/2018 3:32:04 PM	36903
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS	5			Analys	t: TOM
Diesel Range Organics (DRO)		ND	9.8	mg/Kg	1	3/7/2018 8:07:29 PM	36866
Motor O	il Range Organics (MRO)	ND	49	mg/Kg	1	3/7/2018 8:07:29 PM	36866
Surr:	DNOP	93.0	70-130	%Rec	1	3/7/2018 8:07:29 PM	36866
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline	e Range Organics (GRO)	ND	4.6	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Surr:	BFB	95.2	15-316	%Rec	1	3/7/2018 11:36:26 AM	36859
EPA ME	THOD 8021B: VOLATILES					Analys	t: NSB
Benzene	e	ND	0.023	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Toluene		ND	0.046	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Ethylber	nzene	ND	0.046	mg/Kg	1	3/7/2018 11:36:26 AM	36859
Xylenes,	, Total	ND	0.092	mg/Kg	1	3/7/2018 11:36:26 AM	36859

80-120

%Rec

101

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE		(lient Sampl	e ID: SS	5					
Project: Golden 8 Federal 1 Tank Batt	tery	ry Collection Date: 3/3/2018 10:10:00 AM								
Lab ID: 1803223-005	Matrix:	SOIL	Received I	Date: 3/6	5/2018 6:55:00 AM					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	CJS				
Chloride	72	30	mg/Kg	20	3/8/2018 3:44:29 PM	36903				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analyst	: ТОМ				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/7/2018 8:29:20 PM	36866				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2018 8:29:20 PM	36866				
Surr: DNOP	92.0	70-130	%Rec	1	3/7/2018 8:29:20 PM	36866				
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2018 12:00:06 PM	36859				
Surr: BFB	95.1	15-316	%Rec	1	3/7/2018 12:00:06 PM	36859				
EPA METHOD 8021B: VOLATILES					Analyst	: NSB				
Benzene	ND	0.024	mg/Kg	1	3/7/2018 12:00:06 PM	36859				
Toluene	ND	0.049	mg/Kg	1	3/7/2018 12:00:06 PM	36859				
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2018 12:00:06 PM	36859				
Xylenes, Total	ND	0.097	mg/Kg	1	3/7/2018 12:00:06 PM	36859				
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	3/7/2018 12:00:06 PM	36859				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

X O D O I		WO#: 1803223
Hall Env	rironmental Analysis Laboratory, Inc.	13-Mar-18
Client:	LTE	
Project:	Golden 8 Federal 1 Tank Battery	

Sample ID MB-36903	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36903	RunNo: 49642		
Prep Date: 3/8/2018	Analysis Date: 3/8/2018	SeqNo: 1606266	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-36903	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 36903	RunNo: 49642		
Prep Date: 3/8/2018	Analysis Date: 3/8/2018	SeqNo: 1606267	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 15 15.00	0 95.0 90	110	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 9

OC SUMMARY REPORT Η _

Page	55	of	1	<i>06</i>	
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QC DU	WO#:	1803223	
Hall Env	vironmental Analysis Laboratory, Inc.		13-Mar-18
Client:	LTE		

Project: Golden	8 Federal	l Tank I	Battery							
Sample ID LCS-36866	Samp	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batc	h ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	5	SeqNo: 1	603693	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			
Sample ID MB-36866 SampType: MBLK			Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: PBS	Batc	h ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018										
	Analysis I	Date: 3/	7/2018	S	SeqNo: 1	603694	Units: mg/k	٢g		
Analyte	Analysis I Result	Date: 3/ PQL	7/2018 SPK value	SPK Ref Val	SeqNo: 1 %REC	603694 LowLimit	Units: mg/ł HighLimit	(g %RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Analysis I Result ND	Date: 3/ PQL 10	7/2018 SPK value	SPK Ref Val	SeqNo: 1 %REC	603694 LowLimit	Units: mg/ł HighLimit	(g %RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Analysis I Result ND ND	Date: 3/ PQL 10 50	7/2018 SPK value	SPK Ref Val	SeqNo: 1	603694 LowLimit	Units: mg/ł HighLimit	(g %RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 9

QC SUMMARY REPORT Hall E

	WO#:	1803223
nvironmental Analysis Laboratory, Inc.		13-Mar-18

Client: LTE										
Project: Golde	n 8 Federal 17	Fank E	Battery							
Sample ID MB-36859	SampTy	De: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch I	D: 36	859	R	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis Dat	te: 3/	7/2018	S	SeqNo: 1	604248	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	15	316			
Sample ID LCS-36859	SampTy	be: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch I	D: 36	859	R	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis Dat	te: 3/	7/2018	S	SeqNo: 1	604249	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page	57	of	<i>106</i>
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	WO#:	1803223
tal Analysis Laboratory, Inc.		13-Mar-18

Client: LTE										
Project: Golde	en 8 Federal	l Tank I	Battery							
Sample ID MB-36859	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	SeqNo: 1	604285	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	80	120			
Sample ID LCS-36859	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	SeqNo: 1	604287	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.9	79.2	125			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	102	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	Analy 490 iquero FAX; Ilenvi	esis Laborat 91 Hawkins que, NM 87 505-345-4 ronmental.c	lory NE 109 107 com	Sample Log-In Check List			
Client Name: LTE MIDLAND	Work Order Number:	180	3223			RcptNo: 1		
Received By: Anne Thorne	3/6/2018 6:55:00 AM			Arm	A	~		
Completed By: Isaiah Ortiz Reviewed By: おん のろんんんが	3/6/2018 9:14:16 AM	L	cheled Dee	He By P:	われ	~ 75		
<u>Chain of Custody</u>			5/6163 1	£73				
1. Is Chain of Custody complete?		Yes	\checkmark	No		Not Present		
2. How was the sample delivered?		<u>Cou</u>	<u>rier</u>					
Log In 3. Was an attempt made to cool the samples?		Yes		No		NA 🗌		
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No		NA 🗍		
5. Sample(s) in proper container(s)?		Yes		No				
6. Sufficient sample volume for indicated test(s)?		Yes		No				
7. Are samples (except VOA and ONG) properly	preserved?	Yes	\checkmark	No				
8. Was preservative added to bottles?		Yes		No		NA 🗔		
9. VOA vials have zero headspace?		Yes		No		No VOA Vials 🔽		
10. Were any sample containers received broken?	?	Yes		No	~	# of preserved		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	⊻	No		for pH: (<2 or >12 unless noted)		
12. Are matrices correctly identified on Chain of Cu	ustody?	Yes	\checkmark	No		Adjusted?		
13. Is it clear what analyses were requested?		Yes	\checkmark	No				
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	\checkmark	No		Checked by:		
Special Handling (if applicable)								
15. Was client notified of all discrepancies with thi	s order?	Yes		No		NA 🗹		
Person Notified:	Date:				inininina)	a b a summar a summar a		
By Whom:	Via:] eMa	ail 🗌 Ph	one 📋	Fax	In Person		
Regarding:					LARGE BALLETA			
Client Instructions:				aikini historaan ar				
16. Additional remarks:						••••		
17. <u>Cooler Information</u> Cooler No Temp °C Condition Sea 1 1.0 Yes	I Intact Seal No Se	eal D	ate S	Signed I	Зу			

•

Page 1 of 1

Client:	CGLE CGLE Address Address Fright CGLE Package Itation Itation CGSO CGSO CGSO CGSO CGSO CGSO CGSO CGSO	Matrix Matrix	Mylan and TX 4-Si 78 L-Si 78 L-Si 78 Level 4 (Full Validation) D Level 4 (Full Validation) Sample Request ID SS 5 SS 5 SS 5 SS 5 SS 5 SS 5 SS 5 SS	Astandard Project Name Colden Project Mana Roject Mana Adive Sampler Container Type and #	Rush Redero Pedero Perservative Type Cov/	4 #1 Tank Batkry Batkry 1803333 1803333 0001 005 005 005	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only)	ТРН 8015В (GRO / DRO / MRO)	(1, 502 bothen) 803 (1, 502 b			O A 100 (ADV) 800058		NE 1208 X219	YO CONTROL REAL
Date:	Time.	Relinquishe	ed by:	Received by	A.A	gate Time	Remark								
214	1760 Time:	Relingesh	1 Chan	Received	M	3/4 1200 Date Time 3/4/ 1711	1 4 4 7 4	195	200-250-	M-P	社	10	5	243	0-

Received by OCD: 9/17/2024 7:39:57 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 14, 2018

Adrian Baker LTE 3300 N A St Bldg 1 #103 Midland, TX 79705 TEL: (432) 704-5178 FAX

RE: Golden 8 Federal 1 RP 2RP-3612

OrderNo.: 1803221

Dear Adrian Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT: LTE	Client Sample ID: SS1						
Project: Golden 8 Federal 1 RP 2RP-	3612		Collection I	Date: 3/3	2018 8:40:00 AM		
Lab ID: 1803221-001	Matrix:	SOIL	Received l	Date: 3/6	/2018 6:55:00 AM		
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: CJS	
Chloride	53	30	mg/Kg	20	3/7/2018 5:21:40 PM	36886	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analys	t: TOM	
Diesel Range Organics (DRO)	230	9.6	mg/Kg	1	3/7/2018 1:31:40 PM	36866	
Motor Oil Range Organics (MRO)	410	48	mg/Kg	1	3/7/2018 1:31:40 PM	36866	
Surr: DNOP	93.4	70-130	%Rec	1	3/7/2018 1:31:40 PM	36866	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 2:24:20 PM	36859	
Surr: BFB	89.6	15-316	%Rec	1	3/7/2018 2:24:20 PM	36859	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.025	mg/Kg	1	3/7/2018 2:24:20 PM	36859	
Toluene	ND	0.050	mg/Kg	1	3/7/2018 2:24:20 PM	36859	
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2018 2:24:20 PM	36859	
Xylenes, Total	ND	0.10	mg/Kg	1	3/7/2018 2:24:20 PM	36859	
Surr: 4-Bromofluorobenzene	88.1	80-120	%Rec	1	3/7/2018 2:24:20 PM	36859	

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT	: LTE			Client Samp	e ID: SS	2	
Project:	Golden 8 Federal 1 RP 2RF	P-3612		Collection	Date: 3/3	/2018 8:50:00 AM	
Lab ID:	1803221-002	Matrix: S	SOIL	Received	Date: 3/6	/2018 6:55:00 AM	
Analyses		Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: CJS
Chloride)	1700	75	mg/Kg	50	3/9/2018 6:59:22 PM	36886
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: TOM
Diesel R	Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2018 11:41:09 AM	36866

Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/7/2018 11:41:09 AM	36866
Surr: DNOP	87.4	70-130	%Rec	1	3/7/2018 11:41:09 AM	36866
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Surr: BFB	90.0	15-316	%Rec	1	3/7/2018 2:47:38 PM	36859
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Toluene	ND	0.047	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Ethylbenzene	ND	0.047	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Xylenes, Total	ND	0.094	mg/Kg	1	3/7/2018 2:47:38 PM	36859
Surr: 4-Bromofluorobenzene	87.4	80-120	%Rec	1	3/7/2018 2:47:38 PM	36859

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

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Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT: LTE			Client Sampl	e ID: SS	3	
Project: Golden 8 Federal 1 RP 2RP-36	512		Collection 1	Date: 3/3	/2018 9:00:00 AM	
Lab ID: 1803221-003	Matrix:	SOIL	Received	Date: 3/6	/2018 6:55:00 AM	
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CJS
Chloride	430	30	mg/Kg	20	3/8/2018 12:01:08 PM	1 36903
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analy	st: TOM
Diesel Range Organics (DRO)	11	9.8	mg/Kg	1	3/8/2018 1:20:12 PM	36866
Motor Oil Range Organics (MRO)	54	49	mg/Kg	1	3/8/2018 1:20:12 PM	36866
Surr: DNOP	80.9	70-130	%Rec	1	3/8/2018 1:20:12 PM	36866

Surr: DNOP	80.9	70-130	%Rec	1	3/8/2018 1:20:12 PM	36866
EPA METHOD 8015D: GASOLINE RANGE					Analys	I: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: BFB	91.9	15-316	%Rec	1	3/7/2018 7:04:03 PM	36859
EPA METHOD 8021B: VOLATILES					Analys	I: NSB
Benzene	ND	0.024	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Toluene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Xylenes, Total	ND	0.096	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: 4-Bromofluorobenzene	90.5	80-120	%Rec	1	3/7/2018 7:04:03 PM	36859

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental	Analysis	Laboratory, Inc.
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Lab Order 1803221

Date Reported: 3/14/2018

CLIENT:	LTE			Client Sampl	e ID: SS	4	
Project:	Golden 8 Federal 1 RP 2R	P-3612		Collection I	Date: 3/3	3/2018 9:10:00 AM	
Lab ID:	1803221-004	Matrix: S	OIL	Received l	Date: 3/6	5/2018 6:55:00 AM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: CJS
Chloride		ND	30	mg/Kg	20	3/8/2018 12:13:32 PM	36903
EPA MET	HOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	ТОМ
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	3/7/2018 2:58:59 PM	36866
Motor Oi	Range Organics (MRO)	71	50	mg/Kg	1	3/7/2018 2:58:59 PM	36866
Surr: I	DNOP	91.8	70-130	%Rec	1	3/7/2018 2:58:59 PM	36866
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Curry I	ארח	00.1	15 016	0/ Doo	4	2/7/2010 7.07.17 DM	20050

	110	0.0	ing/itg		0/1/20101.21.1111	00000
Surr: BFB	90.1	15-316	%Rec	1	3/7/2018 7:27:17 PM	36859
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Toluene	ND	0.050	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Ethylbenzene	ND	0.050	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Xylenes, Total	ND	0.10	mg/Kg	1	3/7/2018 7:27:17 PM	36859
Surr: 4-Bromofluorobenzene	88.5	80-120	%Rec	1	3/7/2018 7:27:17 PM	36859

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

3/7/2018 8:51:18 PM

3/7/2018 7:50:27 PM

36866

36859

36859

36859

36859

36859

36859

36859

Analyst: NSB

Analyst: NSB

CLIENT:	LTE		(lient Samp	e ID: SS	5	
Project:	Golden 8 Federal 1 RP 2RP-	3612		Collection	Date: 3/3	/2018 9:20:00 AM	
Lab ID:	1803221-005	Matrix: S	SOIL	Received	Date: 3/6	/2018 6:55:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analysi	: CJS
Chloride		ND	30	mg/Kg	20	3/8/2018 12:50:46 PM	36903
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	: том
Diesel Ra	ange Organics (DRO)	ND	10	mg/Kg	1	3/7/2018 8:51:18 PM	36866
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	3/7/2018 8:51:18 PM	36866

70-130

15-316

0.024

0.048

0.048

0.097

80-120

4.8

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

77.2

ND

91.2

ND

ND

ND

ND

90.4

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

LTE

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	1803221
ratory, Inc.		14-Mar-18

Project:	G	olden 8 Federal 1 RP	2RP-3612						
Sample ID	MB-36886	SampType:	mblk	Tes	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	PBS	Batch ID:	36886	R	unNo: 49611				
Prep Date:	3/7/2018	Analysis Date:	3/7/2018	S	eqNo: 1604728	Units: mg/K	g		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID	LCS-3688	6 SampType:	lcs	Tes	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	LCSS	Batch ID:	36886	R	unNo: 49611				
Prep Date:	3/7/2018	Analysis Date:	3/7/2018	S	eqNo: 1604730	Units: mg/K	g		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5 15.00	0	101 9	0 110			
Sample ID	MB-36903	SampType:	mblk	Tes	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	PBS	Batch ID:	36903	R	unNo: 49642				
Prep Date:	3/8/2018	Analysis Date:	3/8/2018	S	eqNo: 1606266	Units: mg/K	g		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID	LCS-3690	3 SampType:	lcs	Tes	Code: EPA Metho	od 300.0: Anion	s		
Client ID:	LCSS	Batch ID:	36903	R	unNo: 49642				
Prep Date:	3/8/2018	Analysis Date:	3/8/2018	S	eqNo: 1606267	Units: mg/K	g		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	95.0 9	0 110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 9

QC SUMMARY REPORT Ha

SUMMARI REFURI	WO#:	1803221
ll Environmental Analysis Laboratory, Inc.		14-Mar-18

Client: I	LTE									
Project:	Golden 8 Federal	1 RP 2R	P-3612							
Sample ID LCS-368	66 Sam	pType: LC	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Ba	tch ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/201	8 Analysis	Date: 3	/7/2018	S	SeqNo: 1	603693	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DI	RO) 47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			
Sample ID MB-3686	6 Sam	рТуре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Ba	tch ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/201	8 Analysis	Date: 3	/7/2018	S	SeqNo: 1	603694	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DI	RO) ND	10								
Motor Oil Range Organics	(MRO) ND	50								
Surr: DNOP	8.2		10.00		82.4	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 9

QC SUMMARY REPORT Hall Envir

	WO#:	1803221
onmental Analysis Laboratory, Inc.		14-Mar-18

Client: I	LTE									
Project: (Golden 8 Federal 1	I RP 2RI	P-3612							
Sample ID MB-3685	9 Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID: PBS	Bato	h ID: 36	859	R	RunNo: 4	9627				
Prep Date: 3/6/201	B Analysis	Date: 3/	7/2018	S	SeqNo: 1	604248	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) ND	5.0								
Surr: BFB	920		1000		91.9	15	316			
Sample ID LCS-368	59 Samp	Type: LC	S	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID: LCSS	Bato	ch ID: 36	859	R	RunNo: 4	9627				
Prep Date: 3/6/201	B Analysis	Date: 3/	7/2018	S	SeqNo: 1	604249	Units: mg/ł	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	69	of	1	06	í
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WO#:	1803	3221
	1 1 1 1	10

14-Mar-18

Client: LTE										
Project: Golden	8 Federal 1	RP 2R	P-3612							
Sample ID MB-36859	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	SeqNo: 1	604285	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	80	120			
Sample ID LCS-36859	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	SeqNo: 1	604287	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.9	79.2	125			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	102	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 9 of 9

.

Client Name: LTE MIDLAND Work Order Number: 1803221 RcptNo: 1 Received By: Anne Thome 3/6/2018 6:55:00 AM Jac.	x List	n Che	e Log-In	nple	San	atory s NE 7109 4107 .com	Labor Hawkin , NM 8 5-345- menta	nalysi 4901 Juerque FAX: 5 enviro	ntal 1 Albu 975 v.hal	Environme 505-345 ebsite: ww	Hall TEL N		L	MENTA S 'ORY	RON YSI RAT	HALL ENVIE ANAL LABO	
Received By: Anne Thorne 3/6/2018 6:55:00 AM Jm. Jm. Completed By: isaiah Ortiz 3/6/2018 8:25:00 AM Jm. Jm. Reviewed By: Sylc. O'SI Old I (Y LB: DDS Chain of Custody I. Is Chain of Custody complete? Yes Ø No Not Present 2. How was the sample delivered? Courter Courter Image: Courter Log In 3. Was an attempt made to cool the samples? Yes Ø No NA 4. Were all samples received at a temperature of >0° C to 5.0°C Yes Ø No NA 5. Sample(s) in proper container(s)? Yes Ø No NA 6. Sufficient sample volume for indicated test(s)? Yes Ø No A 7. Are samples (except VOA and ONG) property preserved? Yes Ø No A 9. VOA vials have zero headspace? Yes Ø No # of preserved 10. Were any sample containers received broken? Yes Ø No Adjusted? 2. Are matrices correctly identified on Chain of Custody? Yes Ø No Adjusted? 3. Is it clear what analyses were requested? Yes Ø No Checked by: Checked by:		ptNo: 1	Rcpt				21	18032	ber:)rder Num	Work	V	ND	e Midla	LTE	Name:	Client
Completed By: Isaiah Ortiz 3/6/2018 8:25:04 AM I Gete Reviewed By: Sylce 03106/18 LB: DDS Chain of Custody No Not Present 1. Is Chain of Custody complete? Yes No Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 5. Sample(s) in proper container(s)? Yes No NA 6. Sufficient sample volume for indicated test(s)? Yes No NA 8. Was preservative added to bottles? Yes No NA 9. VOA vials have zero headspace? Yes No Adjusted? 10. Were all holding times able to bottle? Yes No Adjusted? 9. VOA vials have zero headspace? Yes No Adjusted? 10. Were all holding times able to be me?? Yes No Adjusted?				~	n A	a.			м	6:55:00 A	6/2018	3/6	ne	nne Tho	Ar	ed By:	Receiv
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Analytical Report 578604

for LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal CTB

09-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)


09-MAR-18

Project Manager: **Adrian Baker LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): **578604** Golden 8 Federal CTB Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578604. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 578604 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Cross Reference 578604



LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	03-06-18 14:00		578604-001
SS02	S	03-06-18 14:10		578604-002
SS03	S	03-06-18 14:20		578604-003
SS04	S	03-06-18 14:30		578604-004
SS05	S	03-06-18 14:40		578604-005

Version: 1.%





CASE NARRATIVE

Page 75 of 106

Client Name: LT Environmental, Inc. **Project Name: Golden 8 Federal CTB**

Project ID: Work Order Number(s): 578604

09-MAR-18 Report Date: Date Received: 03/08/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3043201 BTEX by EPA 8021B

Lab Sample ID 578604-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 578604-001, -002, -003, -004, -005.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 578604-005.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578604

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal CTB



Date Received in Lab:Thu Mar-08-18 09:15 amReport Date:09-MAR-18Project Manager:Jessica Kramer

	Lab Id:	578604-	001	578604-0	002	578604-	003	578604-	004	578604-0	005	
Analysis Paguastad	Field Id:	SS01		SS02		SS03	;	SS04	ŀ	SS05		
Analysis Kequesiea	Depth:											
	Matrix:	SOIL	_	SOIL		SOIL		SOII		SOIL	,	
	Sampled:	Mar-06-18	14:00	Mar-06-18	14:10	Mar-06-18	14:20	Mar-06-18	14:30	Mar-06-18	14:40	
BTEX by EPA 8021B	Extracted:	Mar-08-18	16:45									
	Analyzed:	Mar-09-18	10:55									
	Units/RL:	mg/kg	RL									
Benzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
m,p-Xylenes		< 0.00402	0.00402	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00399	0.00399	
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00200	0.00200	
Inorganic Anions by EPA 300	Extracted:	Mar-08-18	13:00									
	Analyzed:	Mar-08-18	16:11	Mar-08-18	16:29	Mar-08-18	16:34	Mar-08-18	16:39	Mar-08-18	16:45	
	Units/RL:	mg/kg	RL									
Chloride		17.3	4.99	<4.95	4.95	<4.91	4.91	<4.93	4.93	<4.92	4.92	
TPH by SW8015 Mod	Extracted:	Mar-08-18	10:00									
	Analyzed:	Mar-08-18	11:56	Mar-08-18	12:22	Mar-08-18	12:49	Mar-08-18	13:17	Mar-08-18	13:45	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		<74.9	74.9	<15.0	15.0	<14.9	14.9	<15.0	15.0	<74.8	74.8	
Diesel Range Organics (DRO)		7100	74.9	1540	15.0	1700	14.9	155	15.0	3900	74.8	
Oil Range Hydrocarbons (ORO)		686	74.9	82.7	15.0	89.9	14.9	26.4	15.0	604	74.8	
Total TPH		7790	74.9	1620	15.0	1790	14.9	181	15.0	4500	74.8	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

fession kramer

Jessica Kramer Project Assistant

Page 5 of 20





LT Environmental, Inc., Arvada, CO

Sample Id:	SS01		Matrix:	Soil]	Date Received	:03.08.18 09.1	5
Lab Sample Ic	l: 578604-001		Date Collec	cted: 03.06.18 14.00				
Analytical Me	thod: Inorganic Anions	by EPA 300]	Prep Method:	E300P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	03.08.18 13.00]	Basis:	Wet Weight	
Seq Number:	3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride		16887-00-6	17.3	4.99	mg/kg	03.08.18 16.1	11	1

Analytical Method: TPH by SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	o: 03.08.	18 10.00	В	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	03.08.18 11.56	U	5
Diesel Range Organics (DRO)	C10C28DRO	7100	74.9		mg/kg	03.08.18 11.56		5
Oil Range Hydrocarbons (ORO)	PHCG2835	686	74.9		mg/kg	03.08.18 11.56		5
Total TPH	PHC635	7790	74.9		mg/kg	03.08.18 11.56		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	03.08.18 11.56		
o-Terphenyl		84-15-1	110	%	70-135	03 08 18 11 56		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id:	SS01 : 578604-001	Matrix: Date Collected	Soil : 03.06.18 14.00	Date Received	:03.08.18 09.15
Analytical Met	hod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number:	3043201				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	03.09.18 10.55		
4-Bromofluorobenzene		460-00-4	118	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS02		Matrix:	Soil		Date Received:03.0	08.18 09.15	i
Lab Sample Io	l: 578604-002		Date Collec	cted: 03.06.18 14.10				
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E30)0P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	03.08.18 13.00		Basis: We	t Weight	
Seq Number:	3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.95	4.95	mg/kg	03.08.18 16.29	U	1

Analytical Method: TPH by SW801	5 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	03.08	.18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122		-						
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 12.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	1540	15.0		mg/kg	03.08.18 12.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	82.7	15.0		mg/kg	03.08.18 12.22		1
Total TPH	PHC635	1620	15.0		mg/kg	03.08.18 12.22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	03.08.18 12.22		
o-Terphenyl		84-15-1	129	%	70-135	03.08.18 12.22		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS02 : 578604-002	Matrix: Date Collected	Soil : 03.06.18 14.10	Date Received	:03.08.18 09.15
Analytical Met Tech:	thod: BTEX by EPA 8021B ALJ			Prep Method: % Moisture:	SW5030B
Analyst:	ALJ 20/2201	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number:	5045201				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	75	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS03		Matrix:	Soil		Date Received:03.	08.18 09.15	5
Lab Sample Ic	l: 578604-003		Date Collec	cted: 03.06.18 14.20				
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method: E30)0P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	03.08.18 13.00		Basis: We	t Weight	
Seq Number:	3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.91	4.91	mg/kg	03.08.18 16.34	U	1

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	03.08	18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.08.18 12.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	1700	14.9		mg/kg	03.08.18 12.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	89.9	14.9		mg/kg	03.08.18 12.49		1
Total TPH	PHC635	1790	14.9		mg/kg	03.08.18 12.49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.08.18 12.49		
o-Terphenyl		84-15-1	130	%	70-135	03.08.18 12.49		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS03	Matrix:	Soil	Date Received	1:03.08.18 09.15				
Lab Sample Id: 5/8604-003 Date Collected: 03.06.18 14.20									
Analytical Me	thod: BTEX by EPA 8021B			Prep Method:	SW5030B				
Tech:	ALJ			% Moisture:					
Analyst:	ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight				
Seq Number:	3043201								

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	80	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS04		Matrix:	Soil		Date Received	:03.08.	18 09.15	
Lab Sample Id	l: 578604-004		Date Collec	cted: 03.06.18 14.30					
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method:	E300P		
Tech:	OJS					% Moisture:			
Analyst:	OJS		Date Prep:	03.08.18 13.00		Basis:	Wet W	eight	
Seq Number:	3043151								
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate I	Flag	Dil
Chloride		16887-00-6	<4.93	4.93	mg/kg	03.08.18 16.	39	U	1

Analytical Method: TPH by SW801				P	Prep Method: TX	1005P		
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	o: 03.08	.18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 13.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	155	15.0		mg/kg	03.08.18 13.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.4	15.0		mg/kg	03.08.18 13.17		1
Total TPH	PHC635	181	15.0		mg/kg	03.08.18 13.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	03.08.18 13.17		
o-Terphenyl		84-15-1	118	%	70-135	03.08.18 13.17		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS04	Matrix:	Soil	Date Received	:03.08.18 09.15
Lab Sample Id	: 578604-004	Date Collected	: 03.06.18 14.30		
Analytical Me	thod: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number:	3043201				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	127	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	89	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:	SS05		Matrix:	Soil		Date Received	:03.08.18	09.15
Lab Sample Id	l: 578604-005		Date Colle	cted: 03.06.18 14.40				
Analytical Me	thod: Inorganic Anions	by EPA 300				Prep Method:	E300P	
Tech:	OJS					% Moisture:		
Analyst:	OJS		Date Prep:	03.08.18 13.00		Basis:	Wet Wei	ght
Seq Number:	3043151							
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Fla	ig Dil
Chloride		16887-00-6	<4.92	4.92	mg/kg	03.08.18 16.4	45 U	1

Analytical Method: TPH by SW801				P	Prep Method: TX	1005P		
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	03.08	18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122			•					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.8	74.8		mg/kg	03.08.18 13.45	U	5
Diesel Range Organics (DRO)	C10C28DRO	3900	74.8		mg/kg	03.08.18 13.45		5
Oil Range Hydrocarbons (ORO)	PHCG2835	604	74.8		mg/kg	03.08.18 13.45		5
Total TPH	PHC635	4500	74.8		mg/kg	03.08.18 13.45		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	03.08.18 13.45		
o-Terphenyl		84-15-1	79	%	70-135	03.08.18 13.45		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample Id	SS05 : 578604-005	Matrix: Date Collected	Soil : 03.06.18 14.40	Date Received	ed:03.08.18 09.15		
Analytical Met	hod: BTEX by EPA 8021B			Prep Method:	SW5030B		
Tech:	ALJ			% Moisture:			
Analyst:	ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight		
Seq Number:	3043201						

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Basayany	Units	Limits	Analysis Date	Flag	
1 4-Difluorobenzene		540-36-3	Kecovery 56	%	70-130	03.09.18.10.55	**	
4-Bromofluorobenzene		460-00-4	102	%	70-130	03.09.18 10.55		



LABORATORIES

Flagging Criteria



Page 87 of 106

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Received by OCD: 9/17/2024 7:39:57 AM



LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method:	Inorganic Anions by	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3043151			Matrix:	Solid				Date Pre	p: 03.0	08.18	
MB Sample Id:	7640419-1-BLK		LCS Sar	nple Id:	7640419-	1-BKS		LCSI	O Sample	Id: 764	0419-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limi	t Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	249	100	90-110	0	20	mg/kg	03.08.18 14:25	

Analytical Method:	Inorganic A	nions by	y EPA 300						P	rep Metho	d: E30)0P	
Seq Number:	3043151			I	Matrix:	Soil				Date Pre	p: 03.0	08.18	
Parent Sample Id:	578424-003	8424-003			ple Id:	578424-00	3 S		MS	D Sample	Id: 578	424-003 SD	
Parameter]	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride		103	249	360	103	360	103	90-110	0	20	mg/kg	03.08.18 14:41	

Analytical Method:	Inorganic A	organic Anions by EPA 300							P	rep Meth	od: E3	00P	
Seq Number:	3043151]	Matrix:	Soil				Date Pr	ep: 03	.08.18	
Parent Sample Id:	578425-005	425-005		MS San	nple Id:	578425-00)5 S		MS	D Sample	e Id: 57	8425-005 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride		<4.97	249	250	100	250	100	90-110	0	20	mg/kg	03.08.18 15:55	

Analytical Method:	alytical Method: TPH by SW8015 Mod								I	Prep Method	l: TX	1005P	
Seq Number:	3043122				Matrix:	Solid				Date Prep	p: 03.0	07.18	
MB Sample Id:	7640359-1	-BLK		LCS Sar	nple Id:	7640359-	1-BKS		LCS	SD Sample	ld: 764	0359-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	986	99	971	97	70-135	2	35	mg/kg	03.08.18 02:51	
Diesel Range Organics	(DRO)	<15.0	1000	1020	102	996	100	70-135	2	35	mg/kg	03.08.18 02:51	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re	D LCS c Fla	D I g	Limits	Units	Analysis Date	
1-Chlorooctane		103		1	10		107		7	0-135	%	03.08.18 02:51	
o-Terphenyl		103		1	.09		104		7	0-135	%	03.08.18 02:51	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method:	TPH by SV	od					F	rep Method	l: TXI	005P			
Seq Number:	3043122				Matrix:	Soil				Date Prep	o: 03.0	7.18	
Parent Sample Id:	578424-001			MS San	nple Id:	578424-00	01 S		MS	D Sample	ld: 5784	424-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	997	1030	103	1040	104	70-135	1	35	mg/kg	03.08.18 04:10	
Diesel Range Organics (DRO)	<15.0	997	1050	105	1090	109	70-135	4	35	mg/kg	03.08.18 04:10	
Surrogate				N %	1S Rec	MS Flag	MSD %Rec	MSD Flag	L	imits	Units	Analysis Date	
1-Chlorooctane		1	17		117		7	0-135	%	03.08.18 04:10			
o-Terphenyl	o-Terphenyl			1	09		112		7	0-135	%	03.08.18 04:10	

Analytical Method:	BTEX by EPA 8021	В						I	Prep Method	l: SW	5030B	
Seq Number:	3043201		I	Matrix:	Solid				Date Prep	p: 03.0	08.18	
MB Sample Id:	7640464-1-BLK		LCS San	nple Id:	7640464-	1-BKS		LCS	SD Sample	Id: 764	0464-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0883	87	0.0848	84	70-130	4	35	mg/kg	03.09.18 10:55	
Toluene	< 0.00201	0.101	0.0900	89	0.0930	92	70-130	3	35	mg/kg	03.09.18 10:55	
Ethylbenzene	< 0.00201	0.101	0.0937	93	0.0974	96	70-130	4	35	mg/kg	03.09.18 10:55	
m,p-Xylenes	< 0.00402	0.201	0.182	91	0.189	94	70-130	4	35	mg/kg	03.09.18 10:55	
o-Xylene	< 0.00201	0.101	0.0921	91	0.0957	95	70-130	4	35	mg/kg	03.09.18 10:55	
Surrogate	MB %Rec	MB Flag	L0 %1	CS Rec	LCS Flag	LCSD %Rec	D LCS E Flag	D I g	Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		10	01		95		7	0-130	%	03.09.18 10:55	
4-Bromofluorobenzene	118		1.	30		122		7	0-130	%	03.09.18 10:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3043201 578604-005	1B	MS Sam	Matrix: ple Id:	Soil 578604-00)5 S		I MS	Prep Metho Date Pro SD Sample	od: SW: ep: 03.0 e Id: 5786	5030B 98.18 604-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0818	82	0.0884	88	70-130	8	35	mg/kg	03.09.18 10:55	
Toluene	< 0.00199	0.0996	0.0659	66	0.0780	78	70-130	17	35	mg/kg	03.09.18 10:55	Х
Ethylbenzene	< 0.00199	0.0996	0.0601	60	0.0745	75	70-130	21	35	mg/kg	03.09.18 10:55	Х
m,p-Xylenes	< 0.00398	0.199	0.112	56	0.143	72	70-130	24	35	mg/kg	03.09.18 10:55	Х
o-Xylene	< 0.00199	0.0996	0.0556	56	0.0717	72	70-130	25	35	mg/kg	03.09.18 10:55	Х
Surrogate			M %I	IS Rec	MS Flag	MSD %Rec	MSE Flag)] ;	Limits	Units	Analysis Date	
1,4-Difluorobenzene			7	8		70		7	0-130	%	03.09.18 10:55	
4-Bromofluorobenzene			12	24		124		7	0-130	%	03.09.18 10:55	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Received by	€D: 9/1	7/2024	39:	57	M_{Γ}	C	1	-	-	-	-	-	-		_													Page	00 oj	f 106
s or expenses incurred by the Client if such los e enforced unless previously negotiated under r	Relinquished by: 20 Nolice: Signature of this document and relinc	Relinquished by Simpler: Relinquished by:	TAT Starts Day received by L	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Turnaround Time (Business day)	10	9	8	7	6	5 SS02	4 SSOH	s SOSS s	2 SS02	1 055		No. Field ID / Point	Samplers's Name: Aaron Williamson	Project Contact: Adrian Bak	Abaker@ltenv.com	3300 N. A Street Bldg 1 Suite 103 M Email:	Company Address:	Company Name / Branch: LTE / Permian	Client / Reporting Informati		Dallas Texas (214-902-0300)	Setting the Standard since 19 Stafford, Texas (281-240-4200)	LABORATO
es are due to circumstances byond the s fully executed client contract.	Date Tim Date Tim	SAMPLE CUSTODY MUST B Date Tin 子子パ Date Tin	ab, if received by 5:00 pm	STANDARD TAT	Contract TAT	5 Day TAT	s										Swr	Sar	of Collection		er	Prione No; 432-704-5178	idland TX 79705			on			90	
introl of Xenco, A minimum charge of \$75 will be applied to each project. X CF:(0-6: -0.2°C) CF:(0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: 5.1	e: Received By: Date Time:	e DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY 10: Received By: Date Time: 11 12 14 15 14 14 15 14 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14	TRRP Checklist	Level 3 (CLP Forms) UST / RG -411	Level III Std QC+ Forms TRRP Level IV	Level II Std QC Level IV (Full Data Pkg /raw data)	Data Deliverable Information					A A A A A A A A A A A A A A A A A A A		0111		XXXX XXX	3-6-18 14 00 S Here Matrix bottles HC Nac Acces NaO NaH MEC NON BEte	t t t t t t t t t t t t t t	Collection Number of preserved bottles		XTO Energy - Kyle Littrell 801 hod	Invoice To: 1 5 300.1	MM	Project Location: Golden & Federal CTB	Project Name/Number: c) 1	An	Www.xenco.com Xenco Quote #	San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)	PageOf	CHAIN OF CUSTODY
IU:H-8	Received By: A On Ice Cooler Temp. Thermo. Corr. Factor	FED-EX / UPS: Tracking #			115637 - 510-06-1112	API ZALIN ALASI											Field Common		A = Ar	WI = Wipe	SL = Sludge	P = Product SW = Sector	GW =Ground Water	W = Water	Matrix Codes	alvical Information	Xanco Job # 12804	ia (480-355-0900)		

Received by OCD: 9/17/2024 7:39:57 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/08/2018 09:15:00 AM Temperature Measuring device used : R8 Work Order #: 578604 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 5.1 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes TPH in bulk container #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

#15 Sufficient sample amount for indicated test(s)?

#18 Water VOC samples have zero headspace?

#16 All samples received within hold time?

#17 Subcontract of sample(s)?

Katie Lowe

Date: 03/08/2018

Yes

Yes

Yes

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 03/08/2018

for LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal Battery #1

12-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176)



12-MAR-18

Project Manager: **Adrian Baker LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): **578893** Golden 8 Federal Battery #1 Project Address: NM

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578893. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 578893 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Cross Reference 578893



LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Ma	atrix	Date Collected	Sample Depth	Lab Sample Id
	S	03-09-18 13:00	6 In	578893-001

Sample Id		

SS06



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal Battery #1

Project ID: Work Order Number(s): 578893 Report Date:12-MAR-18Date Received:03/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3043357 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578893

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal Battery #1



Date Received in Lab:Sat Mar-10-18 12:21 pmReport Date:12-MAR-18Project Manager:Jessica Kramer

	Lab Id:	578893-001			
Analysis Paguastad	Field Id:	SS06			
Analysis Kequestea	Depth:	6- In			
	Matrix:	SOIL			
	Sampled:	Mar-09-18 13:00			
BTEX by EPA 8021B	Extracted:	Mar-10-18 12:30	1		
	Analyzed:	Mar-11-18 09:24			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted:	Mar-12-18 09:00			
	Analyzed:	Mar-12-18 10:37			
	Units/RL:	mg/kg RL			
Chloride		<4.90 4.90			
TPH by SW8015 Mod	Extracted:	** ** ** **			
	Analyzed:	Mar-11-18 02:31			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0			
Diesel Range Organics (DRO)		63.6 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0			
Total TPH		63.6 15.0		 	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

fession kramer

Jessica Kramer Project Assistant

Page 5 of 12



Chloride

o-Terphenyl

Certificate of Analytical Results 578893



LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

4.90

mg/kg

70-135

03.12.18 10.37

03.11.18 02.31

U

1

Sample Id: SS06 Lab Sample Id: 578893-001		Matrix: Date Collecte	Soil d: 03.09.18 13.00	D S	ate Received:03 ample Depth: 6	3.10.18 12.21 In	
Analytical Method:Inorganic AnioTech:OJSAnalyst:OJSSeq Number:3043446	ns by EPA 300	Date Prep:	03.12.18 09.00	P % B	rep Method: E. Moisture: asis: W	300P Vet Weight	
Parameter	Cas Number	Result R	L	Units	Analysis Date	Flag	Dil

<4.90

16887-00-6

Analytical Method:TPH by SW801Tech:ARMAnalyst:ARMSeq Number:3043414	5 Mod	Date Pre	p: 03.10	.18 12.00	P % E	Prep Method: 7 6 Moisture: Basis: V	TX1005P Wet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.11.18 02.31	U U	1
Diesel Range Organics (DRO)	C10C28DRO	63.6	15.0		mg/kg	03.11.18 02.31	l	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	03.11.18 02.31	U	1
Total TPH	PHC635	63.6	15.0		mg/kg	03.11.18 02.31	l	1
Surrogate		Cas Number	% Recovery	Units %	Limits 70-135	Analysis Dat 03 11 18 02 3	te Flag	

97

%

84-15-1





LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Sample Id: SS06	Matrix:	Soil	Date Received	1:03.10.18 12.21
Lab Sample Id: 578893-001	Date Collected	: 03.09.18 13.00	Sample Depth	: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3043357	Date Prep:	03.10.18 12.30	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	03.11.18 09.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.11.18 09.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	03.11.18 09.24		
1,4-Difluorobenzene		540-36-3	84	%	70-130	03.11.18 09.24		



LABORATORIES

Flagging Criteria



Page 99 of 106

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pro	ep Metho	od: E30	00P	
Seq Number:	3043446			Matrix:	Solid				Date Pre	ep: 03.	12.18	
MB Sample Id:	7640586-1-BLK		LCS San	nple Id:	7640586-	I-BKS		LCSE	O Sample	d: 764	0586-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limi	it Units	Analysis Date	Flag
Chloride	< 5.00	250	261	104	261	104	90-110	0	20	mg/kg	03.12.18 09:31	

Analytical Method:	Inorganic A	nions by	y EPA 300						P	rep Metho	d: E3	00P	
Seq Number:	3043446			I	Matrix:	Soil				Date Pre	p: 03.	.12.18	
Parent Sample Id:	578266-004			MS San	ple Id:	578266-00	4 S		MS	D Sample	Id: 57	8266-004 SD	
Parameter	1	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride		<4.99	250	253	101	254	102	90-110	0	20	mg/kg	03.12.18 11:46	

Analytical Method:	Inorganic Anio	ons by	FEPA 300						Pı	ep Metho	od: E30	00P	
Seq Number:	3043446]	Matrix:	Soil				Date Pre	ep: 03.	12.18	
Parent Sample Id:	578891-004			MS San	ple Id:	578891-00	04 S		MS	D Sample	Id: 578	891-004 SD	
Parameter	Pa Re	rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it Units	Analysis Date	Flag
Chloride		11.2	246	258	100	258	100	90-110	0	20	mg/kg	03.12.18 10:26	

Analytical Method:	TPH by S	W8015 M	od						I	Prep Method	l: TX	1005P				
Seq Number:	3043414				Matrix:	Solid				Date Prep	p: 03.	10.18				
MB Sample Id:	7640553-1	-BLK		LCS Sample Id: 7640553-1-BKS LCSD Sample Id: 7640553-1-BSD												
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag			
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	957	96	954	95	95 70-135 0 35 mg/kg 03.10.18 16:								
Diesel Range Organics ((DRO)	<15.0	1000	1010	101	1020	102	70-135	1	35	mg/kg	03.10.18 16:37				
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCS c Flag	D I g	Limits	Units	Analysis Date				
1-Chlorooctane		95		1	03		108		7	0-135	%	03.10.18 16:37				
o-Terphenyl		97		1	03		106		7	0-135	%	03.10.18 16:37				

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method:	TPH by SW	78015 M	od						P	rep Method	I: TX	1005P	
Seq Number:	3043414				Matrix:	Soil				Date Prep	b: 03.1	0.18	
Parent Sample Id:	578129-021			MS San	nple Id:	578129-02	21 S		MS	D Sample I	ld: 578	129-021 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	998	964	97	975	98	70-135	1	35	mg/kg	03.10.18 17:56	
Diesel Range Organics (DRO)	<15.0	998	1070	107	1080	108	70-135	1	35	mg/kg	03.10.18 17:56	
Surrogate		N %	1S Rec	MS Flag	MSD %Rec	MSD Flag		imits	Units	Analysis Date			
1-Chlorooctane				1	05		109		7	0-135	%	03.10.18 17:56	
o-Terphenyl				1	04		104		7	0-135	%	03.10.18 17:56	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 8021 3043357 7640559-1-BLK	В	l LCS San	Matrix: ple Id:	Solid 7640559-	1-BKS] LC	Prep Metho Date Prej SD Sample	1: SW p: 03. Id: 764	75030B 10.18 40559-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0790	78	0.0735	74	70-130	7	35	mg/kg	03.10.18 22:25	
Toluene	< 0.00202	0.101	0.0845	84	0.0783	78	70-130	8	35	mg/kg	03.10.18 22:25	
Ethylbenzene	< 0.00202	0.101	0.0942	93	0.0897	90	70-130	5	35	mg/kg	03.10.18 22:25	
m,p-Xylenes	< 0.00403	0.202	0.185	92	0.178	89	70-130	4	35	mg/kg	03.10.18 22:25	
o-Xylene	< 0.00202	0.101	0.0937	93	0.0910	91	70-130	3	35	mg/kg	03.10.18 22:25	
Surrogate	MB %Rec	MB Flag	L(%]	CS Rec	LCS Flag	LCSD %Rec	LCS Flag	D 1 g	Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		8	8		90		-	70-130	%	03.10.18 22:25	
4-Bromofluorobenzene	98		1	14		111		-	70-130	%	03.10.18 22:25	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3043357 578592-004	В	l MS San	Matrix: ple Id:	Soil 578592-00)4 S		I MS	Prep Metho Date Pre SD Sample	od: SW3 ep: 03.1 Id: 578	5030B 0.18 592-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0663	66	0.0629	63	70-130	5	35	mg/kg	03.10.18 23:03	Х
Toluene	< 0.00200	0.100	0.0526	53	0.0525	53	70-130	0	35	mg/kg	03.10.18 23:03	Х
Ethylbenzene	< 0.00200	0.100	0.0272	27	0.0384	38	70-130	34	35	mg/kg	03.10.18 23:03	Х
m,p-Xylenes	< 0.00401	0.200	0.0530	27	0.0707	35	70-130	29	35	mg/kg	03.10.18 23:03	Х
o-Xylene	< 0.00200	0.100	0.0283	28	0.0372	37	70-130	27	35	mg/kg	03.10.18 23:03	Х
Surrogate			M %1	IS Rec	MS Flag	MSD %Rec	MSD Flag	1	Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	6		92		7	70-130	%	03.10.18 23:03	
4-Bromofluorobenzene			10	03		106		7	70-130	%	03.10.18 23:03	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Released to Imaging: 9/17/2024 7:41:46 AM

Final 1.000

Received by OCD: 9/17/2024 7:39:57 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/10/2018 12:21:00 PM Temperature Measuring device used : R8 Work Order #: 578893 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 1.9 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes

#12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? N/A #18 Water VOC samples have zero headspace? N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 03/10/2018

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 03/12/2018

Bratcher, Mike, EMNRD

From:	Bratcher, Mike, EMNRD
Sent:	Monday, May 14, 2018 2:00 PM
То:	'Ashley Ager'; Weaver, Crystal, EMNRD
Cc:	stucker@blm.gov; Adrian Baker; Littrell, Kyle
Subject:	RE: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612,
-	2RP-4017, 2RP-4601

RE: XTO * Golden 8 Fed 1 (CTB) * 2RP-521,633,2018,2439,3612,4017, & 4601 * DOR: 1/14/10, 2/16/11, 11/25/13, 8/12/14, 2/1/16, 11/26/16, & 1/18/18

Ashley,

Your proposal for additional delineation and remediation is approved. Federal sites will require like approval from BLM.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Ashley Ager <aager@ltenv.com>
Sent: Friday, March 23, 2018 4:56 PM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: stucker@blm.gov; Adrian Baker <abaker@ltenv.com>; Littrell, Kyle <Kyle_Littrell@xtoenergy.com>
Subject: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Crystal,

Please find attached a work plan for addressing historic and recent releases at the Golden 8 Federal Central Tank Battery. The report includes preliminary results from initial surface sampling and proposes additional sampling and remediation work.

The work plan covers the following releases at the location: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Please let me know if you have any questions and have a nice weekend.

Ashley

Ashley Ager, M.S., P.G. Senior Geologist/Vice President of Regional Offices



LT Environmental, Inc. 848 East 2nd Avenue Durango, Colorado 81301 (970) 385-1096 office (970) 946-1093 mobile www.ltenv.com

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Please consider the environment before printing this e-mail.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	384140
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)
CONDITIONS	·

CONDITIONS

Created By	Condition	Condition Date
amaxwel	Historical document upload.	9/17/2024

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